# PROGRESS REPORT

OF

# FOREST ADMINISTRATION

IN

# MYSORE

FOR

# 1876-77,

By CAPTAIN G. J. VANSOMEREN, 25TH M.N.I.,
CONSERVATOR OF FORESTS :

WITH A REVIEW BY THE CHIEF COMMISSIONER

AND

ORDERS BY THE GOVERNMENT OF INDIA.

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1877.

CALCUTTA:

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No. 1576F.

FROM

G. H. M. BATTEN, ESQ.,

*Officiating Secretary to the Government of India,*

To

THE CHIEF COMMISSIONER OF MYSORE.

Department of Revenue, Agriculture, and Commerce

*Forests.*

*Calcutta, the 28th November 1877.*

SIR,

I AM directed to acknowledge the receipt of your Secretary's letter No. $\frac{2377}{R\ F\ 248}$, dated the 28th September last, submitting the Progress Report of Forest Administration in Mysore for the year 1876-77, and to communicate the following observations and orders thereon.

2. The area of the State forests has remained as heretofore, 449¼ square miles, which, as previously stated, amounts to only 1·6 per cent. of the total area of the province. It is not satisfactory that with so small an area in charge of the Conservator and his staff, the forests in a great part of the Nagar Division are reported to be undemarcated, being still unsettled. In paragraph 17 the Conservator states that the Assistant Conservator posted to that Division had been of little use in forest work, and that much valuable time had been lost. This remark discloses a state of things which cannot be allowed to continue, and I am directed to state that serious notice will be taken of the conduct of any Forest officers who do not zealously support the Conservator in his task.

3. As regards fire conservancy, it appears from paragraph 11 of your orders that 37,500 acres were protected from fire to the close of the year. This area, it is supposed, includes the Shankergudda Forest (9 square miles) and the Devaraydurga Forest (18 square miles). But no statement exhibiting details accompanies the report.

4. Paragraphs 17 to 27 of the report give a detailed account of the measures taken to protect several of the reserves from fire. It is evident that in Mysore these operations have not yet emerged from the experimental stage, and that time and money have been, and are being, expended without commensurate results. During the past year the necessity of opening the forests to cattle rendered fire conservancy difficult, and perhaps in some cases impossible; nevertheless it is evident from what is recorded in the paragraphs adverted to, that the Forest officers in Mysore have still a great deal to learn in this matter.

5. In paragraph 7 of the orders on the Forest Report for 1873-74 (No. 222, dated the 25th February 1875), the Government of India suggested that the Conservator should visit some of the fire-protected forests in the Central Provinces, in order to learn the system which has now for more than 12 years been successfully followed by Captain Doveton. This suggestion has been repeated on several occasions, but no report is before the Government of India to show that action has been taken upon it; and I am now directed to state that unless Captain VanSomeren can make it convenient to visit some of the more important fire-protected forests in the Central Provinces and Berar, Mr. Jellicoe or

one of the other professionally trained officers must be directed to visit them during the ensuing season, so that the experience gained in those provinces may be utilised in Mysore.

6. The report of the attempt to commence cutting by compartments in the Ainur Marigudi Forest, which is recorded in paragraphs 40 to 42, has been read with interest. The result of the valuation survey, if the figures are correctly understood, was that in that part of the forest one acre carries the following average growing stock of the more valuable kinds :—

| | No. of trees. | Aggregate cubic contents. | |
|---|---|---|---|
| Teak ... ... ... | 12 | 287·04 | cubic feet. |
| Honné ... ... ... | 4 | 178·84 | " |
| Matti ... ... ... | 14 | 316·12 | " |
| Black wood .. ... ... | 3 | 30·39 | " |
| Total ... | 33 | 804·39 | cubic feet. |

As regards the regeneration of the 42 acres cut, the experiment seems to be regarded as a failure. On a small scale similar experiments may be repeated, but until a safe and certain method for regenerating the forest by compartment cuttings has been established, such operations should not be attempted on an extended scale. It will be useful in each annual report to state the condition of the areas cut in this and subsequent years.

7. From paragraph 90 the Governor-General in Council regrets to observe that the Hassan and Mysore Divisions have been united. If sufficient officers were not available to maintain two distinct forest divisions, the measure was perhaps unavoidable; but the Conservator is mistaken in thinking that the orders contained in the Circular Resolution by the Government of India, No. 30 of 13th October 1876, adverted to by him, were intended to favour the formation of large divisions. Captain VanSomeren's attention should be drawn to paragraph 19 of the orders on the report for 1873-74, and to paragraph 2 of Mr. Lyall's letter No. 617, dated the 8th June 1875, in which the Government of India distinctly suggested the advantage of small divisions placed directly under the Conservator.

8. The financial results have been as follows :—

| | | Rs. | Rs. |
|---|---|---|---|
| Receipts ... ... ... | | ... | 4,66,956 |
| Charges ... ... ... | A | 1,09,761 | |
| | B | 1,17,101 | 2,26,862 |
| Surplus ... | | | 2,40,094 |

In future reports the receipts and charges of the reserves should be shown distinct from the receipts and charges of the district forests.

9. The chief portion of the surplus is due to the sale of sandal wood. The statement recorded on page 27 shows that the quantities of sandal wood collected and sold during the last four years have been as follows :—

| | Collection in tons. | Sales in tons. |
|---|---|---|
| 1873-74 ... ... ... | 1,108 | 976 |
| 1874-75 ... ... ... | 909 | 650 |
| 1875-76 ... ... ... | 1,055 | 923 |
| 1876-77 ... ... ... | 896 | 922 |
| Total ... | 3,968 | 3,471 |

According to a statement appended to the report, the balance in hand at the close of the year amounted to 784 tons, while on the 1st April 1873 the balance in hand amounted to 337 tons. Apparently therefore a small quantity of 50 tons is not accounted for.

10. It is not understood why it should be necessary to keep these large stocks of sandal wood, which must almost unavoidably give rise to theft and fraud.

The balances of sandal wood at the close of the year have apparently steadily increased since April 1873. They are recorded as follows :—

| | | | | Tons. | Value. |
|---|---|---|---|---|---|
| | | | | | Rs. |
| 1st April 1873 | ... | ... | ... | 367 | 94,304 |
| „ 1874 | ... | ... | ... | 469 | 1,30,208 |
| „ 1875 | ... | ... | ... | 728 | 2,20,576 |
| „ 1876 | ... | ... | ... | 844 | 2,64,336 |
| „ 1877 | ... | ... | ... | 784 | 2,41,976 |

It should be explained whether these large stocks cannot be diminished.

I have the honour to be,

SIR,

Your most obedient Servant,

*Offg. Secretary to the Government of India.*

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No. 1577F.

COPY of the above, and of the report which it reviews forwarded to the Foreign Department for information.

*Under Secretary to the Government of India.*

# 1877.

GOVERNMENT OF INDIA.

## DEPARTMENT OF REVENUE, AGRICULTURE, AND COMMERCE.

FORESTS.

To

THE CHIEF COMMISSIONER OF MYSORE.

*No. 1576F.*

*Dated Calcutta, the 28th November 1877.*

SUBJECT.

REVIEWS the Report of Forest Administration in Mysore for 1876-77.

Govt. Central Press.—No. 352 R., A., & C.—29-11-77.—400.

# PROGRESS REPORT

OF

# FOREST ADMINISTRATION

IN THE

# PROVINCE OF MYSORE,

FOR

# 1876—77.

By CAPTAIN G J VAN SOMEREN,

CONSERVATOR OF FORESTS.

## REVIEW BY THE CHIEF COMMISSIONER.

The list of State-forests remained unaltered during the year.

2. The demarcation work was limited to the clearance of 192½ miles, which cost Rs 2,942, exclusive of Rs. 19 stated to have been spent on boundary marks.

3. The Conservator of Forests has not stated what length of boundary lines has already been completed and what still remains to be carried out, although this information was called for in para 3 of the review on the previous year's report.

4 The planting out of casuarinas along boundary lines for the purpose of indicating forest limits was not carried out during the year, owing, it is stated, to the unfavorable character of the season.

5. The Bilikal State-forest in the Nundydroog Division was surveyed and plotted by a party of the Topographical Survey, which had also done some preliminary work in the Begur and Ainur Marigudi forests in the Ashtagram Division.

6. The State-forests which were thrown open to grazing in order to alleviate the distress prevailing in the Province are reported to have suffered somewhat from fires, the origin of which has not however in any case been traced directly to the owners of the cattle.

7. There were 370 cases of breaches of forest rules in which 759 persons were concerned. Convictions were obtained in 315 cases against 631 persons, the number of cases pending at the close of the year being 3 in which three persons were concerned.

8. The outlay incurred in the construction and repair of forest roads and huts amounted to Rs. 5,433, of which Rs. 4,000 were contributed towards the construction of the Chikmagalur-Yedahalli road which will, it is stated, open up the Jagar valley in the Nagar Division where there is much wood at present practically inaccessible.

9. The only forest which was successfully protected from fire during the year was Shankargudda in the Nagar Forest Division. All the other forests including Begur and Ainur Marigudi, where good work seems to have been done, were burnt more or less in spite of protection.

10. The burning of the Ainur Marigudi forest is attributed to an immense fire in the adjoining Madras forests which are stated to have been left unprotected. The Conservator of Forests is requested to submit a separate report on this subject when a reference will be made to the Madras Government inviting their attention to the desirability of measures being adopted if possible for the protection of their forests along the frontier.

11. The total area of forests protected from fire was 74800 acres of which the area successfully protected was only 37500 acres. The total cost incurred during the year was Rs. 6286 as against Rs. 751 in the previous year.

12. Steps have already been taken to extend the area of the reserved forests in the several divisions and the Chief Commissioner hopes that a considerable addition will be made to them during the current official year.

13. The improvement of the Devaraydurga State-forest in the Nundydroog Division is carried out in accordance with a working plan sanctioned therefor. The work done during the year appears to be satisfactory and the sales held at the Biligumba depôt were profitable. The action taken by the Conservator in rejecting the offers for minor products in this forest is approved.

14. The felling by the *Coupe* system was introduced during the year as suggested by the Conservator in para 15 of his report for 1875—76. A plot of 122 acres was selected for the purpose in the Begur forest in the Ashtagram Division; but the operations were confined to an area of only 42 acres owing, it is stated, to want of sufficient labor. An attempt was made to re-plant this area with teak and other trees; but the experiment proved an entire failure owing to causes beyond the control of the department. The Conservator is however of opinion that the new system is preferable to the old one under which the forests have been worked.

15. The Conservator's attention is drawn to para 20 of appendix C to the Forest Code, in which instructions are given as to the proper head under which the charges of the nature referred to in para 43 of the report should be debited.

16. The total area of the plantations at the close of the year under review was 3,902½ acres, of which the area planted during the year was 646 acres. The cost per acre amounted to Rs. 43—14—10 as against Rs. 27—13—1 in the previous year, the increase being due to extensive pitting operations having been carried out in the fuel plantations in anticipation of a larger area being planted up in 1877—78.

17. In para 46 of the report, the Conservator states that no extensions were made at the Lakvalli teak plantation, but the statement appended to para 44 shews that an area of five acres was added during the year.

18. No fire seems to have occurred in any of the plantations; but the injury sustained by the Kakankote teak plantation in 1875—76 is reported to have been more considerable than had been stated in that year's report.

19. The plantations are reported to have all suffered necessarily from the severe drought which has prevailed during the past two years. The percentage of failure in the Kadgodi and Jadiganhalli fuel plantations which are stated to have suffered least was nearly 20 per cent up to the close of the year under review.

20. The *Carob* and *Mahogany* trees were in a flourishing condition, while a large number of *Sal* seedlings were destroyed by a grub stated to be of a species of cockchafer. No experiments were made during the year with *Red Saunders* owing to the unfavorable character of the season, but a quantity of pine seeds was distributed for trial in hill districts.

21. The sales of timber and bamboos during the year amounted to Rs. 69,501 as against Rs. 71,932 in the previous year, the decrease being due to small quantities having been sold in the Ashtagram and Nundydroog Divisions.

22. According to statement B appended to the report, the quantity of timber collected during the year at the ordinary depôts in the Mysore Forest Division is 1,128, whereas the stock return shews that a quantity of only 147 was received. This requires explanation.

23. The quantity of sandalwood sold during the year was 922¾ tons, or ¼ ton less than what was sold in the preceding year. The realizations however amounted to Rs. 3,28,270, or Rs. 41,138 more than in 1875—76. The increase was due chiefly to the higher rates obtained in the Ashtagram and Nundydroog Divisions.

24. The falling off of Rs. 17,253 under the head "Minor Forest Produce" is attributed to several offers which were low having been rejected.

25. Arrangements were made during the year for lessening the number of district-forest depôts under the charge of the Forest officers with a view to enable them to devote their main attention to the improvement of State-forests. These arrangements involved: (1) the retention of only 13 depôts in the Province, of which 10 will be managed by the Forest Department and 3 by the Revenue officers; (2) the abolition of others which were no longer profitable or necessary to retain; and (3) the transfer to the Forest Department of a large area of district-forests which will be treated as State-forests.

26. The receipts from the district-forest depôts amounted to Rs. 34,073, against an expenditure of Rs. 19,000, shewing a profit of Rs. 15,073 as against Rs. 15,257 in the preceding year.

27. The value of the free grants of wood and bamboos made to the ryots for the re-construction of their houses destroyed by fire amounted to Rs. 756 as against Rs. 1,442 in the preceding year.

28. The growth of bamboos having become plentiful, the license system for their sale was reverted to in the District Forests of Nagar, and in the Chamrajnagar and Gundlupet Taluks of the Ashtagram Division.

29. The number of licenses issued for felling wood in the "Exempted" taluks of the Nagar Division was 213, which realized Rs. 2,448.

30. The financial results of the year were as follows :—

| | | | |
|---|---|---|---|
| Receipts | | | 4,66,956 |
| Charges | A | 1,09,761 | |
| | B | 1,17,101 | |
| | | | 2,26,862 |
| | | Surplus | 2,40,094 |

being Rs. 19,115 more than the surplus of the previous year.

31. The statement shewing the actual receipts and expenditure of the department has been separately reviewed and submitted to the Government of India.

32. The number of trees in groves was 825,963 as against 811,306 in the previous year. Out of 3,818 miles of road in the Province, 3,627 miles are stated to have been planted up with trees on both sides.

33. The administration of the department was affected during the year by numerous changes among the officers and higher subordinates as stated in paras 94 to 100 of the report.

34. The several officers and subordinates mentioned in the last two paragraphs of the report have been favorably reported on by the Conservator, who has himself discharged his duties during the year to the entire satisfaction of the Chief Commissioner.

35. The Conservator's attention is drawn to para 189 of the Forest Code with a request that the forms therein prescribed for submission with Annual Reports be adopted in future.

" By Order,"

T. R. A. THUMBOO CHETTY,
*Assistant Secretary.*

# CONSERVATOR'S REPORT.

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*Annual Report No.* 1089—113, *F., dated* 3rd *August* 1877, *on the Management and Conservancy of the Mysore Forests for the Financial year* 1876—77, *by* CAPTAIN G. J. VAN-SOMEREN, *Conservator.*

I have the honor to submit the Report of the Mysore Forest Department for the year 1876—77.

## INTRODUCTORY.

### LEGISLATIVE.

2. The rules for sale of timber by public auction were modified; and the officers in charge of divisions empowered, on occasion, to extend the limit of time allowed for removal of wood from 30 to 90 days

## SPECIAL.

### *HEAD I.—STATE FORESTS*

#### FIRST SECTION.

3 The list of State forests remains unaltered; though measures which will eventually result in their extension were actively carried on in parts of the Province.

| Forest Division. | District. | No. | Taluk. | No. | Reserved Forests. | Area in 1875—76 Sq. Miles. | Added during the year. Sq. Miles. | Excluded or transferred to other heads. Sq. Miles. | Total remaining in 1876—77 Sq. Miles |
|---|---|---|---|---|---|---|---|---|---|
| Nagar. | Kadur. | 1 | Lakvalli ... | 1 | Lakvalli ... | 35 | ... | ... | 35 |
| | | | Do ... | 2 | Tegurgudda ... | 20 | ... | ... | 20 |
| | | 2 | Tarikere ... | 3 | Ubrani ... | 10 | ... | ... | 10 |
| | | 3 | Vastara .. | 4 | Basankote .. | 8 | | ... | 8 |
| | Shimoga. | 4 | Shimoga ... | 5 | Shankargudda ... | 9 | ... | ... | 9 |
| | | | Do ... | 6 | Sakrebail ... | 10 | ... | ... | 10 |
| | | | Do ... | 7 | Choranyedhalli ... | ... | ... | ... | Proposed. |
| | | 5 | Nagar ... | 8 | Masrur | | | | |
| | | 6 | Shikarpur ... | 9 | Ambligolla | 16 | ... | ... | Do 16 |
| | | 7 | Honnali ... | 10 | Kumsi | | | | |
| | | | Do ... | 11 | Chordi | | | | |
| | | 8 | Sorab ... | 12 | Tallegadde ... | 5 | ... | ... | 5 |
| Mysore. | Mysore. | 1 | Heggaddevankote... | 1 | Ainur Marigudi ... | 30 | ... | ... | 30 |
| | | | Do ... | 2 | Begur ... | 37 | ... | ... | 37 |
| | | | Do .. | 3 | Kakankote ... | 25 | ... | ... | 25 |
| | | | Do .. | 4 | Viranhoshalli | | | | |
| | | | Do ... | 5 | Metikuppe | 30 | ... | ... | 30 |
| | | | Do ... | 6 | Hunsekuppe | | | | |
| | | 2 | Gundlupet ... | 7 | Bandipur ... | 15 | ... | ... | 15 |
| | | | Do ... | 8 | Berambadi ... | 31 | .. | ... | 31 |
| Nundydroog. | Túmkúr .. | 1 | Túmkúr ... | 1 | Devaraydurga ... | 18 | ... | ... | 18 |
| | Bangalore ... | 2 | Kankanhalli .. | 2 | Bilikal .. | 55 | ... | ... | 55 |
| | Túmkúr ... | 3 | Maddagiri ... | 3 | Maddagiri | 10 | ... | ... | 10 |
| | | | Do ... | 4 | Kandal | | | | |
| | Kolar ... | 4 | Chikballapur. . | 5 | Nundydroog ... | 7 | ... | ... | 7 |
| | Bangalore. | 5 | Magadi ... | 6 | Killekaval ... | 8 | .. | ... | 8 |
| | | 6 | Closepet ... | 7 | Handigundi Betta ... | 14¼ | ... | ... | 14¼ |
| | | 7 | Kankanhalli ... | 8 | Uyamballi | | | | |
| | | | Do ... | 9 | Arkavati | 21 | ... | ... | 21 |
| | | | Do ... | 10 | Devarbetta | | | | |
| | | | | | *Evergreen.* | | | | |
| Hassan. | Hassan. | 1 | Manjarabad ... | 1 | Kabbinale .. | 14 | ... | ... | 14 |
| | | | Do ... | 2 | Kagineri ... | 9 | ... | ... | 9 |
| | | | Do ... | 3 | Bagimalle ... | 6 | ... | ... | 6 |
| | | | Do ... | 4 | Sundekumri ... | 6 | ... | ... | 6 |
| | | | | | Total... | 449¼ | ... | ... | 449¼ |

4. *Demarcation.*—Old lines were cleared as shewn in the following statement:—

| Forest Division. | No. of miles. | Cost. | | | Remarks. |
|---|---|---|---|---|---|
| Nagar ... ... ... | ... | *19 | 6 | 2 | *Spent on boundary marks. The lines round the Lakvalli, Shankar and Sakrebail forests were cleared and charged to fire protection. |
| Ashtagram (Mysore District.) ... | 87 | 1,030 | 0 | 0 | |
| Nundydroog ... ... ... | 105½ | 1,911 | 15 | 2 | |

5. The forests in great part of the Nagar Division are still undemarcated, being still unsettled. What has been done with the view of extending them will be found under Section Fourth, "Improvement and Extension of Forests." All the forests in the list in the Ashtagram Forest Division, Mysore District, are completely demarcated. Those in Hassan District are evergreen on the ghats and not intended to be demarcated yet by artificial boundaries. Those in the Nundydroog Forest Division are all demarcated excepting Nos. 8, 9, 10. The demand upon the time and attention of revenue officers by the famine and its consequences have greatly contributed to delaying the settlement of forests in Nagar.

6. Owing to the unfavorable seasons, I did not attempt to raise casuarina trees any where for the purpose of indicating forest limits by a belt of such trees, as suggested in my last year's report.

7. *Survey of Forests.*—A party of the Topographical Survey being available, it was directed to take up the survey of a part of the State forests. In Ashtagram Division some preliminary work was done in the Begur and Ainur Marigudi forests. In Nundydroog Division, the Bilikal forest was completely surveyed and plotted, and I believe the map is now at Calcutta to be photozincographed. The difficulties resulting from the famine, and the very early date at which the springs and nallas failed in the forests in Mysore District, prevented much work being done there. As far as the Forest Department is concerned, the Mysore District forests and those in Nagar should if possible be surveyed first. In Nundydroog, the forests require to be conserved and left to recover, instead of being worked, for some years to come.

8. *Condition of the State Forests.*—In Nagar the *Lakvalli* forest is much in the same condition as reported last year. It was opened during the year, in common with most of the other State forests, to cattle, for grazing, as, owing to the drought, grass was not to be had in sufficient quantity outside its limits. The *Shankargudda* and *Sakrebail* forests were also opened to grazing; and their condition this year calls for no particular remark. None of them are the better for being thrown open, but as this was unavoidable, no further remarks are called for. No wood was felled in either of the two last named forests.

9. Of the forests in the Ashtagram Division, but little need be said in this place. More information regarding them will be found in the fourth section. All the State forests, excepting Begur and Ainur Marigudi were opened to grazing, and suffered thereby.

10. In the Nundydroog Division, all the forests were eventually opened to grazing; great endeavours were made to save the Devaraydurga State forest from being opened. The Deputy Commissioner, Captain Ludlow, helped us in every way he could. For a long time the forest was surrounded by cattle brought down from Koratagere, Sira and other Taluks. Their owners were allowed to enter the forest and cut and remove the grass under supervision. But at last what could be cut was finished, none at all could be had outside the forest, and it was at length obliged to be opened to grazing. The other forests in this division are left alone, and not worked at all, being merely protected.

11. The evergreen forests in Hassan call for no particular remarks this year.

12. The demarcation lines everywhere are in good order; though the posts in many places have been knocked down by elephants or destroyed by white ants. At Devaraydurga forest, 160 stone slabs were put up along the lines, where they are not about to be altered by a late extension of the forest, at a total cost of Rs. 100. Stone is plentiful thereabouts and is therefore the cheapest material for the purpose.

## SECOND SECTION.

### Requirements of people in the vicinity of State Forests in the matter of wood how provided for.

13. By sales from small depôts; by licenses from district forests; and by sale of any thinnings from State forests that may be handy for sale to the public.

## THIRD SECTION

14. Prosecutions for breaches of forest rules :—

| Forest Division. | No. of Prosecutions. | | Convictions obtained. | | Cases pending. | |
|---|---|---|---|---|---|---|
| | Number of Cases. | Number of Persons. | Number of Cases. | Number of Persons. | Number of Cases. | Number of Persons. |
| Nagar ... ... ... ... | 163 | 279 | 140 | 228 | ... | ... |
| Ashtagram ... ... ... | 49 | 75 | 41 | 63 | 3 | 3 |
| Nundydroog ... ... .. | 158 | 405 | 134 | 340 | ... | ... |
| Total..... | 370 | 759 | 315 | 631 | 3 | 3 |

## FOURTH SECTION.

### Improvement and Extension of Forests.

15. *Roads and Bridges.*—Chikmagalur-Yedehalli road. Rs. 4,000 were contributed during the year by the Forest Department to this road, which will open up Jagar valley in Nagar Division, where there is much wood at present practically inaccessible. The road is being made by the officers of the Public Works Department. The Lakvalli-Sukalarahatti track was cleared by the department and made practicable for carts at a total cost of Rs. 43—6—0. In Ashtagram, forest tracks were kept in repair at a total cost of Rs. 1—8—0.

16. *Buildings.*—The difficulties of the season, and the want of sufficient labor prevented our using Rs. 600 allotted in Ashtagram for forest huts. In Nagar, a forest hut was commenced at Mavinhalla in Lakvalli, but not completed before the close of the year. Rs. 224 were spent on it; and Rs. 78 spent on the repairs of the Srigeri, Sukalarhatti and Hanigeri huts ; Rs. 49—9—10 on repairs to the Shimoga sandal koti ; and Rs. 9 on repairs to the Shimoga woodyard hut. In Nundydroog, a forest hut was built at a cost of Rs. 350 ; and for Rs. 28, a depôt hut was built outside the Devaraydurga forest at Biligumba. Two forest huts, one at Bilikal forest and one at Killekaval forest, were also commenced, and almost completed at a cost of Rs. 375 and 275 each. A hut was also commenced at Malur for the use of the Ranger employed chiefly on plantation works.

17. *Protection from fire.*—In Nagar but little was done. The Shankargudda forest was successfully protected from fire, by the lines cut round it, and the guards appointed. The Sakrebail forest was burnt in spite of protection, the origin of the fire could not be traced, but as the forest was open to grazing and had many cattle in it, this is not strange. The Lakvalli forest was partially protected by a second line being cut round its perimeter, and the burning back of the forest outside ; but it was burnt from the inside. The Commissariat officer in charge of the Amrut Mahal, who happened to be in the forest at the time, has told the Deputy Conservator that he believed it was the work of a party of native shikaris, but the men were not recognized or seized. The forest was also open to grazing. It is a large tract of land. The work ordered for systematic protection of the forest was not commenced in time. The Assistant Conservator posted to the division, under the Deputy Conservator, has been but of little use in forest work, and much valuable time has been lost. The Deputy Conservator has since commenced the work himself.

18. In Ashtagram Division, some good work was done. The work was commenced by Mr. Hutchins who was sent down for the special purpose, but he suffered greatly from fever, had to be removed to Bangalore in consequence in July 1876, and finally left for England on leave to recruit his health. The division was thus again dependent on only one officer. Mr. Dickinson was then in charge. He continued the work in the Begur forest as soon as it was open for work. This forest covers some 37 square miles. Mr. Hutchins proposed that the fire lines should be clean cuts of 60 feet turfed or tamped over,

sown with guinea grass or covered with quick growing evergreen trees. Turfing, tamping, and sowing with grass was out of the question on account of the expense. Planting trees did not recommend itself to me as a good plan, and the far greater portion, or 59 miles out of 62 of fire lines, were formed by cutting parallel lines, six feet wide, on either side of a strip of forest generally 100 feet wide, but varying in width according to the style of forest gone through.

19. In this way, a line was cut round the forest first, the demarcation line being utilized on one side of the strip. A line was then cut dividing the forest into two parts, and these again were set off in three divisions on one side and two divisions on the other side of the central line. The forest was thus cut up into five compartments. One of the shorter lines, 3 miles in length and running east and west, was however cut clean to a width of 60 feet, to allow of a comparison of the two systems. At the proper time, and after due precautions had been taken, the two six foot lines on either side and the intervening forest were burnt off. The same was done all round the forest between the six foot line and the demarcation line. The 60 foot line was also burnt off.

20. The season was a very dry one, and the jungle fires had commenced before the operations were quite completed. As an additional precaution a road running to the Wynad through the forest was, with the concurrence of the Revenue officers, closed during the hot weather, and will be so every year. Our only danger now was fire entering the forest from the adjoining Madras forests, which have not in any way been protected from fire, and from the carelessness of our own axemen, the Kurubars who live in the forest. The Madras forests will always be a great danger to us, till they also are protected in like manner. The only line between them and us is our fire line, which runs along a hilly country, where a strong breeze will carry blazing grass, sticks and bamboos to a great distance. To induce the Kurubars to aid us all they can, all fireguards are Kurubars, and as their payment depends on their not being in any way concerned in firing the forest, they will in time learn it is to their interests as well as ours to keep out fires.

21. In spite of very good and hard work done by all concerned, and especially by Mannar Pille, Ranger in charge, we were not altogether successful. Early in January, fires broke out on the same day in both the north and south of the forest. The Ranger taking one party went south, the most valuable portion, and sent another north. The fires were put out after much trouble, but portions of three blocks were burnt. Later in the year three more fires occurred; but they did little damage, being at once put out. Upwards of two-thirds of this fine forest were altogether protected from fire, and this is I think good. No fire entered from the district-forests.

22. The Ainur Marigudi forest was also taken in hand, and treated like that of Begur, from which it is separated by a fire line. Here a capital line was cut straight through the centre of the forest and all along the Begur forest side; and between us and the Madras forests to the south. The forest was thus cut into two; and every endeavour made to save the western half. We succeeded for a time till an immense fire in the Madras forests swept down, flew over our lines and burnt the block. The block was too large to be considered safe in any case.

23. These forests are far from any villages; have but a few Kurubars in them, and it was therefore necessary to import almost all the labor. Taking this into consideration, and also remembering that the forests are open for but a portion of the year, I trust the work will be considered good. Mr. Dickinson started it in a very thorough fashion. He has since been transferred to Coorg. Mr. Macpherson who is now again in charge of his old Division will carry on the work. One more line will be cut in Begur. Ainur Marigudi will be completed this year; and Kakankote taken in hand. I would beg that the Chief Commissioner would urge on the Madras Government the expediency of protecting their forests along our border; what we have done will be a great help to them; no fire crossed from us to the Madras forests last year from either Begur or Ainur Marigudi.

24. All the other forests in this Division were thrown open to grazing this year, were not protected, and were burnt more or less as usual.

25. In *Nundydroog* Division there were 26½ miles of fire lines cut in the following forests on the same plan as that adopted at Begur. Nundydroog, 8½; Bilikal 13½; Killekaval 2½; Handigundi Betta 2½. An insignificant fire occurred in Nundydroog. The other forests were burnt very early in the season in parts; being full of cattle and people.

26. I shall report separately on the work done in the Devaraydurga and Maddagiri forests in paras 32 to 39. In both these forests work was carried out, which, while helping to protect them from fire, was intended more especially to improve the forests in other respects. A small portion, five acres in all, was burnt in an open grass plot in Devaraydurga after it had been opened to grazing.

27. In all Rs. 6,286 were spent in protecting forests and reserves from fire; in Nagar Rs. 508; in Ashtagram Rs. 4,698, and in Nundydroog Division Rs. 1,080.

28. *Extensions of the Area of Forests.*—In *Nagar* the Deputy Conservator was occupied for some considerable time in going over land which might be brought on to the State forests, either by extending existing forests or by forming new forests out of land still unenclosed. The areas so proposed by him in addition to applications already made amounted to some 324 square miles. In April 1877, a detailed list of lands amounting in all to 92,777 acres or 144 square miles was published in the local Gazette, and till the question is settled, no rights can accrue in these lands. The Revenue Survey map of Lakvalli Taluk will ere long be ready I believe; and steps are being taken to add to the Lakvalli State-forest. The matter will I hope be taken up at an early date. Other duties have prevented its being yet settled.

29. In Ashtagram, the Commissioner agreed provisionally to the setting apart of land to be added to the existing State forests of Hunsekuppe, Viranhoshalli and Metikuppe; to the bringing on the lists of land near Anechaukur; of land in Chamrajnagar and Gundlupet; of Arebetta and other lands near Bhartur and Hulkanda Nagavara in Hassan; and to the Hirikalgudda also in Hassan District, north of Arsikere being made into a State forest. This last has been (for other purposes) surveyed and measured by the Revenue Survey Department, and contains some 80 square miles. The Commissioner has lately addressed me on the subject of sending a forest officer to meet the revenue officers, to make the necessary settlement of the lands.

30. Small additions have been proposed to the Devaraydurga forest, and are before the Government of India for sanction. The health of Mr. Daly, the officer in charge of this Division, was for some time before his death (in February last) so bad, that work frequently suffered; and since his death, the Range, the Plantations, and the special charge of the Devaraydurga forest has for want of officers been all placed under one officer Mr. King, instead of under three men.

31. Before the close of 1877—78, if the extra work caused by the famine will admit of it, I hope that a large addition will have been made to the State-forests; when demarcation will commence.

32. *Improvement of Forests.*—In Nundydroog, the following work was done in the Devaraydurga Forest. The forest was cut into four blocks by paths 60 feet in width. These blocks are of unequal size, and were chosen after a careful consideration of local features and with a view to their future working. A rough sketch map accompanies this report. It shews the blocks, (No. 3 being also called the valley block), the block lines, inspection paths, and spots planted and prepared for planting; also the forest boundary and the proposed additions thereto. Seven miles of block lines were cut; and about 11 to 12 miles of inspection paths, six feet in width. All wood cut on the block lines and inspection paths, and that cut on the land cleared for planting in the valley block was sent to a small depôt established outside the forest at Biligumba. 668 cart-loads were sold and realized Rs. 727; and a balance of 983 cart-loads left on hand. The total expenditure on the work was Rs. 645; so the results were profitable, as the wood in any case had to be felled. Had the season been a less disastrous one, the sales would have been larger. 10,075 bamboos were cut, and sent to depôt at a total cost of Rs. 103, and 2,295 were sold for Rs. 72; when the demand fell off; 3,700 bamboos were cut and used by the department for the new hut and depôt.

33. A sum of Rs. 116 was spent on extra fire guards kept up during the hot season, when the forest was open to grazing; this is charged to *Protection from fire.*

34. As already reported, a new and good hut, much wanted, was built during the year.

35. The work done in the plantation here will be found in its place in para 52; the yield will also be shewn again incorporated in its place in statement A of the appendix. The forest yielded in addition, many thousands of cart-loads of grass taken to feed the starving cattle of ryots, before the forest was opened to grazing.

36. A part of the district road to Uradagore runs through the forest. The Forest officer took the contract at the ordinary rates for the maintenance of that portion of the road within his forest. This was done to prevent people claiming a right of way as contractor's coolies; to prevent stealing of wood; danger of fire; and also the diversion of labor. The road was put into capital order by Mr. King, and a diversion made to avoid a nasty low bit, and a small bridge built.

37. The offers for the minor forest products in this forest were very low last year, and I directed Mr. King to refuse all offers, as the season was bad, and I thought it better to keep out all strangers rather than admit them for the sake of a few rupees.

38. The appointment of a separate officer to the charge of this with the Maddagiri forest has had a very good effect in stopping petty thefts of wood. Captain Ludlow, the District Magistrate, greatly aided the department in this as in other matters, and to this help we must attribute part of the successful management of the forest during the past year.

39. The Revenue Survey map of the Maddagiri Taluk has not yet reached me. Mr. King was employed part of his time in the revision of parts of this forest, the lines of which are now cleared, and its area is I have reason to believe greater than expected. The forest was not worked at all, further than that the lac was sold. An enormous quantity of grass was cut under supervision for the use of cattle, before the forest was opened to grazing. The taluk has suffered greatly from the famine.

40 In the *Ashtagram* Division 122 acres of land were set off in the Ainur Marigudi forest on the north and north-western slopes of the Shigebetta Hill, as a *coupe d'ensémencement* and for the purpose of giving the Rangers some practical idea of the real method and working of a forest. This area is composed of forest containing bamboo, teak, honne, (*Pterocarpus marsupium*), matti (*terminalia tomentosa*), bité (*dalbergia lat.*) and other trees. Soil, a rich black compact loam of considerable depth with gravelly subsoil and few stones. A valuation survey of this area was made; the trees of the more valuable kinds counted. Reserved trees were all girthed at six feet from the ground, and the height of clean wood taken. The results are tabulated below, which shews only reserved trees:—

| Description of trees. | No. of trees of each kind. | Average Girth. | Average Height. | Average cubical contents. |
|---|---|---|---|---|
| Teak ... ... ... | 1,451 | 4·70 | 19·26 | 23·92 |
| Honne ... ... ... | 486 | 6·61 | 22·98 | 42·71 |
| Matti ... ... ... | 1,726 | 4 69 | 19·93 | 22·58 |
| Black wood ... ... ... | 384 | 3·28 | 16·80 | 10·13 |

41. It being found impracticable to get sufficient labor at this point, for the proper working of the 122 acres in one year, the trees to be felled were marked over a part of it measuring 42 acres. They were felled and logged; bamboos cleared out, useless trees girdled and all made ready for the reception of teak seed, and seed of other valuable trees. The season advanced; it was an exceedingly dry one; and the crop of teak, matti and bité seed almost entirely failed. Mr. Macpherson made great endeavours to get good seed, but failed. The seed vessels were small and generally found on examination to be empty. A small quantity was collected, but reports lately received are, that none of the seed put down in the plantations had germinated. The experiment has therefore failed from causes beyond our control. I tried to get some teak seed from Nellambur, but none could be spared thence, and Mr. Dickinson could send none from Coorg.

42. But the experiment has been by no means barren of results. The Rangers concerned have begun to realize something of the value of a systematic valuation of trees; of selection; of working a forest so that while it can be made to yield a steady supply of timber, it shall be enabled to renew itself. During 1876—77, but little wood of any kind was felled in the State-forests in South Mysore, except what was cut in making fire lines, and in the work connected with the *coupe d'ensémencement*. With this supply of timber to fall back upon, till such time as the fire lines block and compartment lines are completed, I trust that no more wood need be felled by mere selection over the whole area of the forests in South Mysore. In short the demand for wood is such that I think the supply afforded by the carrying out of these essential works of improvement and protection will suffice for some years to come, and that these forests, which as a rule require rest, will, before they are called upon to supply a larger demand which may hereafter arise, be sufficiently advanced to allow of their being no longer worked en jardinage, or by, selection of trees; but on a carefully considered plan. The selection of trees to be felled was a great advance upon the old system in force ten years ago; the localizing of the felling owing to protection and improvement works is another advance. The Ashtagram and Nundydroog Divisions have in these matters gone a head of the Nagar Division.

43. The whole cost of the operations in Begur forest was debited to Fire Protection, thus shewing a large expenditure under that head. But as the dividing of the forest into blocks and compartments is intended to form part of a working plan and has reference to the working of the timber in future, it is necessary to mention this here. I do not see how I can well separate the two in the accounts, as the working plan has yet to be made. Meanwhile the mere protection from fire is apparently, but only apparently, very heavy. As the forests as a rule were generally thrown open to grazing, protection from fire was rendered almost impracticable. Our operations extended over some 74,800 acres, the total cost being Rs 6,286; 37,500 acres were successfully protected.

PLANTATIONS.

44. The prescribed form shewing only planted areas is now given:—

| Names of Plantations. | Area in 1875—76. | Total Cost. | Area added during 1876—77. | Amount expended in 1876—77. | Total Area up to 1876—77. | Total Expenditure up to 1876—77. |
|---|---|---|---|---|---|---|
| | Acres. | | | | Acres. | |
| Lakvalli (Teak.) ... | 15 | 908 | 5 | 142 | 20 | 1,050 |
| Sakrebail do ... | 30 | 2,938 | ... | 71 | 30 | 3,009 |
| Hebbe do ... | 9½ | 928 | ... | 10 | 9½ | 938 |
| Kakankote do ... | 93 | 6,445 | .. | 429 | 93 | 6,874 |
| Mustigudi do ... | 61 | 2,123 | 50 | 1,834 | 111 | 3,957 |
| Kumbarhalli (Timber) ... | 334 | 9,085 | 16 | 2,030 | 350 | 11,115 |
| Maddagiri do ... | 63 | 1,869 | ... | ... | 63 | 1,869 |
| Alkol (Sandal wood) ... | 71 | 857 | ... | 53 | 71 | 910 |
| Anapankatte do ... | 237 | 1,019 | ... | 136 | 237 | 1,155 |
| Gurapur do ... | 55 | 2,952 | ... | ... | 55 | 2,952 |
| Karepur do ... | 5 | 202 | ... | ... | 5 | 202 |
| Nayihalla do ... | 46 | 470 | 50 | 840 | 96 | 1,310 |
| Chota and Barahoshardi (fuel) ... | 377 | 12,611 | 73 | 3,947 | 450 | 16,558 |
| Jadiganhalli do ... | 197 | 5,401 | 79 | 2,283 | 276 | 7,684 |
| Nellal do ... | 244 | 6,594 | 99 | 4,373 | 343 | 10,967 |
| Kadgodi do ... | 260 | 6,892 | 78 | 3,947 | 338 | 10,839 |
| Kurandhalli do ... | 263 | 4,594 | 45 | 1,558 | 308 | 6,152 |
| Karpanhalli do ... | 139 | 5,418 | 29 | 1,016 | 168 | 6,434 |
| Marsandra do ... | 322 | 6,882 | 62 | 2,238 | 384 | 9,120 |
| Appasandra do ... | 264 | 6,735 | 57 | 1,660 | 321 | 8,395 |
| Kumalgod do ... | 167 | 7,249 | 3 | 576 | 170 | 7,825 |
| Santaveri (exotic) | 4½ | 1,053 | ... | 28 | 4½ | 1,081 |
| Total..... | 3,256½ | 93,225 | 646 | 27,171 | 3,902½ | 1,20,396 |
| Sundries (see statement in Appendix)... | .. | 7,977 | ... | 1,208 | ... | 9,185 |
| Grand Total..... | 3,256½ | 1,01,202 | 646 | 28,379 | 3,902½ | 1,29,581 |

45. All plantations throughout Mysore suffered greatly from the short rain-fall of 1876—77; following as it did on a short fall in 1875—76. In my report for 1875—76, I had to report many failures owing to the want of rain, and planting operations during 1876—77 were still more affected by the still worse seasons of the past year.

46. *Lakvalli, teak* (i).—Not extended. Protected from fire, and 168 overshadowing jungle trees that had dominated teak were removed.

47. *Sakrebail teak* (ii)—Not extended; successfully protected.

48. *Hebbe teak* (iii)—No extensions.

49. *Kakankote* (iv)—It was reported in 1875-76, that fire had gone through this plantation, but that but little damage had been done. But late in 1876--77, I visited the plantation with Mr. Macpherson, and found that the effects of the fire, were more serious by far than they had appeared to be to the officers (Messrs. Jellicoe, Dickinson and Hutchins) who had seen it earlier. Doubtless the extremely dry season which had ensued on the accident greatly aggravated the damage first caused. I found that in almost every individual tree the terminal bud had been destroyed, the tree had forked badly, the leaf growth was poor, and the whole plantation looked sick and bad. After much consideration and discussion of the best remedy to be applied, it was decided that nothing could be done to the trees as they stood. It was therefore decided to cut them down to the roots, and four years' growth will thus be lost. The trees with the root power they already have, will shoot up fast, and the growth will be rapid in every way. Doubtless it is true that the wood of a tree raised from a seed is better than that from a root shoot, or virtually coppice. But on the other hand, it is highly probable that the far larger portion of the teak now growing in the forests has not grown up its present state from seed.

50. The second plot here of 40 acres has always been liable to injury from elephants, and is not looking well. These beasts are now causing great annoyance and inconvenience to all our workers in the forest, this year, and pits are again being made, to trap them. Two persons have been killed by elephants, and with the sanction of the Chief Commissioner, Mr. Macpherson has been allowed to shoot rogue elephants and he has succeeded in shooting one.

51. *Mastigudi*, 1st series—Damaged somewhat by elephants and in want of pruning; but promises well.

*2nd Series*—Opened in 1875; the two bad seasons in succession have killed large numbers of young seedlings, and very large portions of the area will have to be gone over again.

*3rd Series.*—The same remarks as for No. 2. No further extensions can be made, as the year that has just closed was so adverse, and the supply of seed is so small.

*Kumbarhalli* (timber) (vi.)—Here vacancies in the plantings of former years were filled up, and 17,500 pits dug for the year's planting. The planting could only be done as the rain allowed, and operations ceased when the rain ceased early. Only half the area intended to be planted was completed, and failures in the new planting and that of the preceding year have been many.

53. *Maddagiri* (vii)—Simply maintained.

54. *Alkol* (*sandal*) (viii).—A large quantity of seed was dibbled in here, but with not much success.

55. *Anapankatte* (*sandal*) (ix.)—A very large quantity of seed was dibbled in here. An experiment was tried of transplanting nursery raised seedlings, but the tank supply of water failed, and the trees died. The young trees from seeds that germinated, died in large numbers, owing to the dry season.

56. *Gurpur* (*Sandal*) (x.)—Nothing done here, owing to bad seasons; and the plantation looks poor.

57. *Karepur* (*sandal*) (xi.)—Closed three years ago; a small experimental plantation.

58. *Nayihalla* (Sandal) xii. Here 50 acres were covered with sandal seeds dibbled in; and the 46 acres of the preceding year also replenished. Mr. Macpherson reports that the failure of the rains has had a most disastrous effect on the first year's work, and that the sowing of the 50 acres has resulted in very little indeed.

59. It was intended to plant out sandal in Devaraydurga; (see para 52 of report for 1875—76) but the seasons being so adverse; the work was not carried out, though the land was prepared.

60. *Fuel Plantations in Nundydroog.*—On the 30th October last, I reported (see Chief Commissioner's Proceedings No. 8125—Rev.-F. 241 of 14th November 1876), on the state of these plantations, which had passed through a bad year, see my report for 1875—76, paras 52—65. In October I had found it necessary to stop work in 7 out of 10 plantations owing to the rains failing. I proposed to continue pitting and cutting out of thorns in 8 plantations, in the hope that the rains of the year in which we now are, would prove good, and enable us to bring up our average of *planted area* in this and next year. Pitting was continued, this having been sanctioned by the Chief Commissioner, and a large sum has thus been spent, against which I can in the accounts show nothing, as only *planted areas* are allowed to be entered.

61. The hopes expressed in para 15 of my report of the 30th October last have been set aside by the failure of the rains this year; and it is now too late to sow.

62. The planting out of trees from nurseries stopped at an early date last year, and what was done was carried out with but a fitful rain-fall. It was intended to have planted up 930 acres of new land. Five hundred and twenty-five acres of new land were actually planted up, and seventy odd acres of land planted in intermediate lines with older trees; and work ceased.

63. About 700 acres of ground were ready pitted and carried forward on the 1st April 1877, and the expenditure per acre thus stands at a very much higher figure in the accounts than for the previous year. This was to be expected, see para 6 of my letter of 30th October last, and as the season of 1877—78 has proved worse still than that which preceded it, the averages must again rise.*

64. It would be tedious to recount the work in each plantation under such circumstances. The Kadgodi and Jadiganballi plantations have suffered least, and in them the peccentage of failure was nearly 20 per cent up to 1st April last. The estimated expenditure was Rs. 30,000; Rs. 24,800 in all were spent.

65. Summary of all plantations.

| | Acres. | | Rs. | | Rs. | A. | P. |
|---|---|---|---|---|---|---|---|
| Year opened with a planted area of | 3,256½ | which cost | 1,01,202 | or per acre | 31 | 1 | 3. |
| Year's work was a planted area of | 646 | " | 28,379 | " | 43 | 14 | 10. |
| Year closed with a planted area of | 3,902½ | " | 1,29,581 | " | 33 | 3 | 3. |

Or Rs. 2—2—0 per acre more than that of the total results up to 31st March 1876 on planted area.

66. *Experiments with various Trees—Carob.*—There are 117 young carob trees in the Kadgodi and 50 in the Jadiganballi plantations, watered at the nurseries and in good health.

67. *Mahogany.*—The seven trees reported on last year are alive; the tallest is nearly seven feet in height now.

68. *Sal.*—A number of seedlings were raised in Kadgodi nursery. In October last, the greater number were killed in one night by a grub of, I think, a species of cock-chafer. It so happened that Mr. Daly and I visited the plantation that day. We unearthed the grubs, and found that the roots had been bitten through just below the

* All work of every kind, pitting included, was stopped on the 1st July 1877; a small establishment being kept up simply to protect the plantations.

ground. The uninjured plants were at once taken up and put into pots in cleaned earth; twenty-four are now alive and looking well.

69. *Red Saunders.*—No attempt was made to introduce the red saunders, this year. It failed last year, and the season was not a good one for experiments with exotics.

70. *Pinus longifolia and excelsa.*—A quantity of seed was distributed for trial by the Deputy Commissioners in hill districts, and in Coorg; and also sent to coffee planters in different parts.

## FIFTH SECTION.

### Actual Yield of Forests. Disposal of Timber.

71. The Government of India in its orders on my Coorg Forest Report for 1875—76, directed that the statements hitherto embodied in the report should be shewn in the appendix only; I have therefore this year adapted the Mysore form to that of Coorg, as far as practicable.

72. *Timber.*—The fellings in State forests were very limited; and those in Nagar under district-forests were in great part confined to fellings of land in settled taluks made over to occupants. The cost of collection per cubic foot in Nagar and Ashtagram, was somewhat lower than in 1875—76; while the selling averages per cubic foot in Nagar were better; and in Ashtagram very slightly better than in the preceding year. The operations in Nundydroog Division were insignificant.

73. *Sandalwood.*—The statement in the appendix, shews that the total cost of collection per ton was Rs. 0—7—3 more than the preceding year; while the selling rates per ton for *all* kinds of sandalwood were Rs. 44—10—8 better than in 1875—76. This increase is due entirely to the Ashtagram and Nundydroog sales; in Nagar the Deputy Conservator who held the first sales of the year, refused to part with most of his billet wood as the rates were low, and he considered that this was due to a combination among the merchants. His sales were mostly wood of the lower classes, and this accounts for the low average this year in Nagar.

74. No green wood was felled. Old roots, and old dried and broken trees brought in.

75. *Minor Forest Produce.*—The offers being everywhere low, most were refused. In Ashtagram with the Chief Commissioner's sanction, a remission of Rs. 100 was made to the contractor for gall nuts to forego the collection in Begur and Ainur Marigudi, so that his collectors might be kept out of the forests. Fire protection was thus aided.

## *DISTRICT FORESTS.*

76. Operations during the year were directed to closing certain depôts which did not pay, or which will in future be worked by the Revenue officers. The Forest Department retains but ten depôts in all————— ; and has proposed that three others should be eventually worked by the Revenue officers; meanwhile the department is working two of them. The Forest officers will thus be enabled to work in the State-forests where they should be. The depôts retained by the department are; in Nagar three (1) Benkipur (2) Sorab Taluk (3) Chikmaglur or Tarikere; in Ashtagram four (1) Antarsante (2) Húnsúr (3) Hangod and (4) Hassan, in addition to the old depôts of Lakvalli, Shimoga and Mysore. The three depôts to be made over to Revenue officers are all in the Shimoga District, at Shiralkoppa, Nyamti and Shikarpur.

77. Large areas of district-forests will ere long be made into State-forests, and come under the actual control and charge of the forest establishments.

78. The revenue from district depôts for the year was Rs. 34,073, total charges being about Rs. 19,000, leaving a surplus of Rs. 15,073; value of stock in hand at close of year was Rs. 25,000.

79. The progress of revenue settlements must, as already explained, reduce the general demand for small wood for a time.

80. Free grants of wood on account of houses having been burnt down:—

| Forest Divisions. | Quantity in cart loads. | | Value. | | |
|---|---|---|---|---|---|
| | Wood. | Bamboos. | | | |
| Nagar ... ... ... | 65 | 62 | 692 | 10 | 3 |
| Ashtagram .. ... ... | ... | Nil. | ... | .. | .. |
| Nundydroog ... ... ... | 30 | 22 | 68 | 0 | 0 |

81. In Nagar Division, eight patels or headmen of villages were convicted of theft of wood, and fined in sums varying from Rs. 5 to Rs. 20. They are included among the prosecutions in para 14.

82. The license system was reverted to, for bamboos, in the district-forests of the Nagar Division, and in Chamrajnagar and Gundlupet Taluks in Ashtagram. Bamboos are now again very plentiful in most of our forests, indeed they are so plentiful in parts of the Begur Forest, as to seriously interfere with the growth of young trees. They are in fact a nuisance, and do more harm than weeds or grass. In parts of the Ainur Marigudi forest the large bamboo has seeded this year; and so have bamboos both large and small in other forests scattered through the Province generally.

83. *Licenses for Woods*—In taluks exempt from the ordinary operation of the forest rules, licenses are sold to traders; and to others in places remote from depôts at the discretion of the Forest Divisional officer; and 213 licenses were issued in the Nagar Division for Rs. 2,447—8—0.

84. The Malvalli district-forests were made over to the Revenue officers in accordance with the orders of the Chief Commissioner; and the forest establishment withdrawn thence.

## GENERAL REMARKS.

### *HEAD I.—FINANCIAL RESULTS.*

85. In accordance with the orders of the Government of India, the usual detailed comparison of estimates with actuals is not given in the report. The financial results are summarized in the prescribed form:—

| | Rs. | Rs. |
|---|---|---|
| Realizations .. .. .. .. | 4,66,957 | |
| *Deduct—* | | |
| Amount realized on account of previous years .. | 16,764 | |
| Balance.. | 4,50,193 | |
| *Add—* | | |
| Outstandings at the close of the year .. | 26,621 | |
| | | 4,76,814 |
| Value of the year's transactions .. .. | .. | 4,76,814 |
| Disbursements .. .. | 2,26,862 | |
| *Deduct—* | | |
| On account of transactions of former years .. | 0 | |
| Balance.. | 2,26,862 | |

| | | Rs. |
|---|---|---|
| *Add—* | | |
| Due for transactions during the year under review but not yet disbursed .. .. | 0 | 2,26,862 |
| Real cost of the year's transactions .. . .. | | 2,26,862 |
| Value of the year's transactions .. .. .. | | 4,76,814 |
| Cost of the year's transactions .. .. .. | | 2,26,862 |
| | Balance.. | 2,49,952 |
| *Deduct—* | | |
| Difference between the value of stock at the commencement and close of the year .. .. | | 26,609 |
| | Net Results of the year.. | 2,23,343 |

The cash surplus being Rs. 2,40,095 or Rs. 82,095 more than the originally estimated surplus.

86. The probable value of wood at the district-forest depôts is not shewn in the above, and is about Rs. 25,000.

87. On timber operations of all kinds brought to depôts (excluding sandalwood), the realizations were Rs. 69,501 against an expenditure of Rs. 28,632.

## *GENERAL REMARKS.*

88. The "groves, avenues and nurseries" returns will be found in the appendix. In groves there were on the 1st April last 25,963 trees distributed over 16,293 topes in 12,340 villages. Out of 3,818 miles of road in the Province, 3,627 miles are planted up with trees at distances varying from 12 to 60 feet, and almost throughout on both sides of the road.

89. The demarcation lines round all forests* actually in possession of and made over to the department, have all been cut. None therefore remain to be done, though as large extensions of area are contemplated, and will shortly be made, new work will have to be entered upon.

90. The Hassan and Mysore Districts were worked entirely by one officer during the year, as there were not sufficient officers to keep them separated, and the work of protection from fire in South Mysore required Mr. Hutchins' services more urgently. The two ranges have now been made into one and placed under the Deputy Conservator, and called the Ashtagram Forest Division. This is also in accordance with the spirit of para 47 of the lately received code, and para 4 of the Government of India Resolution No. 30—1073—1086 of the 13th October 1876.

91. One Sandal-koti Daroga was convicted of criminal breach of trust, and sentenced to two years' rigorous imprisonment and 1,000 rupees fine. The case is now in special appeal before the Judicial Commissioner. A Koti Daroga applied for an invalid pension; and was relieved from duty pending settlement.

92. A suit for nearly Rs. 5,000 brought against the department in March 1876 and given partly in favor of the plaintiff was on appeal reversed in 1876—77, when the department gained it with all costs against the original plaintiff; who then made a special appeal to the Judicial Commissioner, who upheld the decision of the lower appellate court.

93. Major Jarrett had charge of the Nagar Range during the year.

94. The Ashtagram Forest Division, including Hassan and Mysore, was part of the year from 1st April to 11th May, under Mr. Jellicoe; from 12th May 1876 to 8th January 1877, under Mr. Dickinson, and Mr. Macpherson, whose return to duty was welcomed, took charge of his old Division during the last three months of the year.

* Excepting those on the Ghats.

95. The Nundydroog Forest Division was under Mr. Ludlow till 30th May 1876, when he was transferred to Nagar under Major Jarrett. Mr. Daly took charge of the Division in addition to the Plantations. He held it till December, when failing health forced him to go to the coast for a short time. Mr. King took charge. Mr. Daly returned in January, but had shortly to leave again, and died in February. Mr. King then again took charge.

96. Mr. Jellicoe, in June last, joined the Forest Survey Party in the North-West Provinces and is still absent.

97. Mr. Dickinson was transferred to take charge of Coorg in January.

98. Mr. Hicks worked first in the Nagar Division, and later in the year was transferred to Ashtagram. He was employed in weighing out sold sandalwood and on other special duties in all three forest divisions, and went on leave, owing to ill health, in March.

99. Mr. Hutchins worked well at Begur till July, when having suffered much from constant fever he was brought into Bangalore, and when better, sent out to survey the plantations in Nundydroog. But his health was very bad. In September he left for England on three months' privilege leave to try and recruit. His leave was there commuted into medical leave, and he was absent when the year closed.

100. One Ranger was transferred to the Public Works Department, two pensioned, and a third was employed for some months by the Chief Commissioner's orders at the elephant keddahs: and afterwards on famine relief works. Another Ranger left the department for employment on the Madras Railway.

101. The department has thus suffered from many changes among officers, and in the higher subordinate ranks.

102. As a rule officers report well of their subordinates; H. Mudappa, Head Writer in the Deputy Conservator's office, Ashtagram Forest Division, is deserving of mention in this report, as a man who has worked his way up in the department, by good, steady careful work in every thing given him to do. Ranger Stephens is a good and intelligent Ranger, and has some knowledge of botany. The collection of the flowers and fruits of the Hassan District has been confided to him, together with a copy of Beddome's Flora Sylvatica and other books to enable him to make a good hortus siccus of the flora of the Hassan Range. Ranger Mannar Pille is well spoken of by Mr. Macpherson. In my own office Mr. S. Chambers, the Manager, has worked well, and C. Krishna Rao, the Accountant, has, as usual, done his work thoroughly well and been of great assistance to me.

193. Mr. Macpherson was during the year promoted to Deputy Conservator, 3rd grade, a well-earned promotion. Mr. Jellicoe was promoted to 1st grade Assistant Conservator. Mr. Dickinson worked hard and well in everything he had to do, and I am confident that the Coorg Forest Division, where he now is, will greatly benefit by his being in charge. Mr. Hutchins did well till his health failed. Mr. Daly worked hard almost till the time of his death; and Mr. King who was at last in charge of three different charges worked well.

G. J. VAN SOMEREN, CAPTAIN,
*Conservator of Forests, Mysore and Coorg.*

Government Series No. 21.

## MYSORE FOREST DEPARTMENT.

*Annual Summary of Revenue and Expenditure for the year* 1876—77.

| Particulars. | Nundydroog Division. | Nagar Division. | Mysore Division. | Hassan Division. | Total. | Remarks. |
|---|---|---|---|---|---|---|
| *I. Revenue from Wood.* | | | | | | |
| 1. Brought to Depôt by Departmental Agency.— | | | | | | |
| (a) Timber and bamboos... ... ... | 73 3 3 | 46,814 14 2 | 23,051 2 5 | 704 7 11 | 70,643 11 9 | |
| (b) Firewood and charcoal ... ... | 727 1 0 | ... ... ... | ... ... ... | ... ... ... | 727 1 0 | |
| (c) Sandalwood ... ... ... | 40,898 14 8 | 68,823 11 5 | 1,57,046 12 5 | *61,581 13 4 | 3,28,351 3 10 | * Realized in the Mysore District. |
| 2. Wood removed from forests by purchasers, license-holders, and permit-holders. | | | | | | |
| (a) Timber and bamboos ... ... | 1,132 11 5 | 4,671 1 1 | 409 6 6 | 2,136 1 1 | 8,349 4 1 | |
| (b) Firewood and charcoal ... ... | 703 1 6 | 76 6 0 | ... ... ... | 424 6 11 | 1,203 14 5 | |
| 3. From confiscated drift and waif wood .. ... | 13 8 0 | 1,590 8 5 | 61 12 8 | 14 2 0 | 1,679 15 1 | |
| *II. Revenue from Minor Produce.* | | | | | | |
| 1. Grazing dues and sale of grass ... .. | 184 15 8 | 1,050 15 11 | .. ... ... | 189 3 0 | 1,425 2 7 | |
| 2. Other minor produce ... ... ... | 19,097 11 2½ | 19,834 1 8 | 5,826 4 8 | 3,789 2 7 | 48,547 4 1½ | |
| *III. Duty on Produce of Foreign or Private Forests imported into British Territory.* | | | | | | |
| 1. On wood ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | |
| 2. On other forest produce ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | |
| *IV. Miscellaneous.* | | | | | | |
| 1. From fines and forfeitures ... ... ... | 170 3 3 | 101 13 11 | 77 10 0 | 312 8 0 | 662 3 2 | |
| 2. From refunds to the Department ... ... | 21 8 10 | 196 1 2 | 0 2 6 | 191 4 0 | 409 0 6 | |
| 3. From other sources ... ... ... | 4,272 6 5 | 266 10 9 | 222 12 9 | 195 12 9 | 4,957 10 8 | |
| Total... .. | 67,295 5 2½ | 1,43,426 4 6 | 1,86,695 15 11 | 69,538 13 7 | 4,66,956 7 2½ | |

Government Series No. 21.—*Continued.*

| Particulars. | Nundydroog Division. | Nagar Division. | Mysore Division. | Hassan Division. | Total. | Remarks. |
|---|---|---|---|---|---|---|
| **EXPENDITURE.** | | | | | | |
| A. CONSERVANCY AND WORKS. | | | | | | |
| *I. Cost of Timber Operations.* | | | | | | |
| 1. On wood brought to Depôts by Departmental Agency :— | | | | | | |
| (a) Timber and bamboos ... .. ... | 52 1 3 | 16,781 14 3 | 11,003 15 11 | ... ... ... | 27,837 15 5 | |
| (b) Firewood and charcoal ... ... ... | 738 5 2 | ... ... ... | ... ... ... | ... ... ... | 738 5 2 | |
| (c) Sandalwood ... .. ... | 4,616 6 0 | 10,537 11 10 | 12,430 1 10 | 5,820 7 4 | 33,204 11 0 | |
| 2. On wood removed from forests, &c | | | | | | |
| (a) Timber and bamboos ... ... ... | 191 12 7 | ... ... ... | ... ... ... | ... ... ... | 191 12 7 | |
| (b) Firewood and charcoal ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | |
| 3. On confiscated drift and waif wood ... ... | ... ... ... | 29 5 4 | ... ... ... | ... ... ... | 29 5 4 | |
| *II. Cost of collecting Minor Produce.* | | | | | | |
| 1. Grazing and sale of grass ... ... ... | ... ... ... | .. ... ... | ... ... ... | ... ... ... | ... ... ... | |
| 2. Other forest produce ... ... ... | ... ... ... | 97 4 0 | ... ... ... | ... ... ... | 97 4 0 | |
| *III. Cost of Forest Organisation.* | | | | | | |
| 1. Demarcation lines and boundary pillars .. ... | 1,911 15 2 | 19 6 2 | 1,030 0 0 | .. ... ... | 2,961 5 4 | |
| 2. Working plans ... ... .. | ... ... ... | .. ... ... | ... ... ... | ... ... ... | ... .. ... | |
| 3. Surveys ... ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | |
| *IV. Cost of the Treatment and Creation of Forests.* | | | | | | |
| 1. Natural Forests :— | | | | | | |
| (a) Protection from fire ... ... ... | 1,080 4 6 | 507 12 5 | 4,697 11 2 | ... ... ... | 6,285 12 1 | |
| (b) Fencing and enclosing ... ... | ... ... .. | ... ... ... | ... ... ... | ... ... .. | ... ... ... | |
| (c) Improvement and conservation ... ... | 73 12 0 | 98 8 0 | ... ... ... | ... ... ... | 172 4 0 | |
| (d) Reboisement or restoration of denuded areas ... | 2,243 2 9 | ... ... ... | 2,262 12 5 | 634 15 8 | 5,140 14 10 | |
| 2. Artificial Forests :— | | | | | | |
| (a) Formation ... ... ... ... | 22,770 11 3 | 22 4 0 | 425 4 8 | 1,694 13 5 | 24,913 1 4 | |
| (b) Protection from fire ... ... ... | ... ... ... | 53 15 0 | 99 8 8 | ... .. ... | 153 7 8 | |
| (c) Improvement and conservation ... ... | ... ... ... | 232 2 4 | 266 1 6 | ... ... ... | 498 3 10 | |
| (d) Fencing and enclosing ... ... ... | ... ... ... | 131 1 0 | 85 2 8 | .. ... ... | 216 3 8 | |

Government Series No. 21.—(*Concluded*).

| Particulars | Direction. | Nundydroog Division. | Nagar Division | Mysore Division. | Hassan Division. | Total. | Remarks. |
|---|---|---|---|---|---|---|---|
| *VII. Works of Utility for the Development of Forests.* | | | | | | | |
| 1. Roads and bridges ... ... ... | ... ... ... | ... ... ... | 4,043 6 ... | 1 8 ... | ... ... .. | 4,044 14 ... | |
| 2. Buildings and offices ... ... ... | ... ... .. | 1,020 ... ... | 370 5 6 | 19 4 .. | ... . ... | 1,409 9 6 | |
| 3. Compensation for land taken up for forest purposes ... | ... ... ... | 98 8 ... | 9 1 3 | ... ... ... | .. ... ... | 107 9 3 | |
| 4. Other works .. ... ... ... | ... ... ... | ... ... ... | ... ... ... | .. .. ... | .. ... ... | ... ... ... | |
| *VIII. Cost of Departmental Cattle.* | | | | | | | |
| 1. Purchase of stock ... ... ... | .. ... ... | . ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | |
| 2. Hire of stock ... .. ... ... | ... ... .. | ... ... ... | ... ... ... | ... ... ... | ... ... ... | .. ... ... | |
| 3. Feed and keep of cattle .. .. ... | ... ... .. | ... ... ... | ... ... ... | ... ... ... | ... ... .. | ... ... ... | |
| *IX. Cost of Departmental Plant and Tools.* | | | | | | | |
| 1. For timber and wood operations ... ... | ... .. .. | 96 9 ... | 312 ... 4 | 208 14 4 | ... .. .. | 617 7 8 | |
| 2. For other purposes ... ... .. | ... ... ... | 7 ... ... | ... ... | 87 ... . | 91 14 ... | 185 14 ... | |
| *X. Miscellaneous Charges.* | | | | | | | |
| 1. Refunds ... ... ... ... | ... ... . | 75 1 11 | 88 15 2 | ... | .. ... ... | 164 1 1 | |
| 2. Law charges ... ... .. ... | ... ... . | ... ... ... | 708 15 .. | ... | .. ... ... | 708 15 ... | |
| 3. Other charges... ... ... ... | ... ... ... | 4 .. ... | 55 ... | 22 | 8 .. ... ... | 81 8 ... | |
| Total A, Conservancy and Works.. ... | ... ... . | 34,979 9 7 | 33,896 15 7 | 32,639 13 2 | 8,242 2 5 | 1,09,760 8 9 | |
| B. ESTABLISHMENT. | | | | | | | |
| I. Salaries ... ... | 16.004 14 4 | 23,505 3 3 | 32,423 3 .. | 20,3[illegible]1 14 5 | 8,115 10 1 | 1,00,420 13 1 | |
| II. Travelling allowances ... .. | 1,381 1 6 | 4,955 10 11 | 2,380 12 3 | 3,099 5 11 | 1,534 .. 11 | 13,350 15 6 | |
| III Contingencies ... ... ... | 414 4 5 | 1,132 ... 8 | 822 6 5 | 702 4 4 | 258 8 6 | 3,329 8 4 | |
| Total B, Establishment..... | 17,800 4 3 | 29,592 14 10 | 35,626 5 8 | 24,173 8 8 | 9,908 3 6 | 1,17,101 4 11 | |
| Total Expenditure..... | 17,800 4 3 | 64,572 8 5 | 69,525 5 3 | 56,813 5 10 | 18,150 5 11 | 2,26,861 13 8 | |

CONSERVATOR OF FORESTS' OFFICE,
MYSORE AND COORG,
*Bangalore, 24th July* 1877.

Checked and countersigned.
H. HUDSON,
*Dy. Acctt. General in Mysore.*

G. J. VAN SOMEREN, CAPTAIN,
*Conservator of Forests, Mysore and Coorg.*

## Government Series No. 22.

### MYSORE FOREST DEPARTMENT.

*Annual Abstract Account of the Cash Transactions of the Forest Department in Mysore for the year* 1876—77.

| Year. | Heads of Account. | Amount. | | | Year. | Heads of Account. | Amount. | | |
|---|---|---|---|---|---|---|---|---|---|
| 1876—77. | To Cash Balance in hand on 31st March 1876 ... | 9,966 | 8 | 1 | 1876—77. | By Expenditure of the Department... | 2,26,697 | 12 | 7 |
| | „ Revenue received ... | 4,66,956 | 7 | 2½ | | „ Remittances to State Treasuries .. | 4,66,956 | 7 | 2½ |
| | „ Remittance from State Treasuries ... | 2,24,558 | 3 | 0 | | „ Repayments or Refunds of Advances ... | 610 | 1 | 10 |
| | | | | | | „ Refunds of Revenue ... | 164 | 1 | 1 |
| | | | | | | „ Balance outstanding on 31st March 1877 ... ... | 7,052 | 11 | 7 |
| | Total Rs .... | 7,01,481 | 2 | 3½ | | Total Rs..... | 7,01,481 | 2 | 3½ |

CONSERVATOR OF FORESTS' OFFICE,
MYSORE AND COORG,
*Bangalore, 24th July* 1877

G. J. VAN SOMEREN, CAPTAIN,
*Conservator of Forests, Mysore and Coorg.*

Checked and countersigned.
H. HUDSON,
*Dy. Acctt. General in Mysore.*

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## Government Series No. 28.

### MYSORE FOREST DEPARTMENT.

*Annual Account of Forest Revenue for* 1876—77.

| Receipts. | Amount. | | | Disbursements. | Amount. | | |
|---|---|---|---|---|---|---|---|
| Amount of revenue realized in 1876—77. | 4,66,956 | 7 | 2½ | Amount disbursed in 1876—77 ... | 2,26,861 | 13 | 8 |
| *Deduct—* | | | | *Deduct—* | | | |
| Amount realized on account of previous years ... ... .. | 16,763 | 11 | 9½ | Amount disbursed on account of transactions of former years .. | ... | ... | ... |
| Balance..... | 4,50,192 | 11 | 5 | Balance..... | 2,26,861 | 13 | 8 |
| *Add—* | | | | *Add—* | | | |
| Outstandings on account of the year ... | 26,620 | 15 | 11 | Amount due for transactions during the year under review but not yet disbursed ... ... | ... | ... | ... |
| Value of the year's transactions .. | 4,76,813 | 11 | 4 | Real Cost of the year's transactions ... | 2,26,861 | 13 | 8 |

| | | | |
|---|---|---|---|
| Value of the year's transactions ... ... .. ... ... | 4,76,813 | 11 | 4 |
| Cost of the year's transactions .. ... ... ... ... | 2,26,861 | 13 | 8 |
| Balance.. .. | 2,49,951 | 13 | 8 |
| Deduct difference between the value of stock at the commencement and close of the year .... | 26,609 | 0 | 0 |
| Net Results of the year..... | 2,23,342 | 13 | 8 |

*N. B.*—Besides the above, the probable value of stock remaining at District-Forests Depôt amounts to Rs. 25,000

CONSERVATOR OF FORESTS' OFFICE,
MYSORE AND COORG,
*Bangalore, 3rd August* 1877.

G. J. VAN SOMEREN, CAPTAIN,
*Conservator of Forests, Mysore and Coorg.*

Government Series No. 23.

MYSORE FOREST DEPARTMENT.

*Annual Statement of Outstandings and Liabilities of the Department on account of Contractors and Disbursers for the year* 1876—77.

| Division | Departmental Debtor. | | | | | | | | | Departmental Creditor. | | | | | | | | | Balance due. | | | | | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | At the commencement of the year. | | | Recoveries in cash and work done during the year | | | At close of the year. | | | At the commencement of the year. | | | Payments made during the year. | | | At close of the year. | | | To Department Outstandings. | | | By Department Liabilities. | | | |
| Nundydroog Division ... ... | ... | ... | ... | 10,128 | 1 | 8 | 10,128 | 1 | 8 | 1,291 | 3 | 1 | 9,720 | 1 | 0 | 11,011 | 4 | 1 | 883 | 2 | 5 | ... | ... | ... | |
| Do Plantations ... ... | ... | ... | ... | 24,800 | 6 | 0 | 24,800 | 6 | 0 | .. | ... | .. | 25,500 | 0 | 0 | 25,500 | 0 | 0 | 699 | 10 | 0 | ... | ... | ... | |
| Nagar Division ... ... | ... | ... | ... | 34,138 | 5 | 10 | 34,138 | 5 | 10 | 3,852 | 7 | 10 | 31,879 | 1 | 0 | 35,731 | 8 | 10 | 1,593 | 3 | 0 | ... | ... | ... | |
| Mysore do ... ... | ... | ... | ... | 32,642 | 5 | 2 | 32,612 | 5 | 2 | 1,688 | 10 | 6 | 32,538 | 4 | 9 | 34,226 | 15 | 3 | 1,584 | 10 | 1 | ... | ... | ... | |
| Hassan do ... ... | ... | ... | ... | 8,497 | 6 | 10 | 8,497 | 6 | 10 | 3,134 | 2 | 8 | 7,655 | 6 | 3 | 10,789 | 8 | 11 | 2,292 | 2 | 1 | ... | ... | .. | |
| Total.. ... | ... | ... | ... | 1,10,206 | 9 | 6 | 1,10,206 | 9 | 6 | 9,966 | 8 | 1 | 1,07,292 | 13 | 0 | 1,17,259 | 5 | 1 | 7,052 | 11 | 7 | ... | ... | ... | |

CONSERVATOR OF FORESTS' OFFICE,
MYSORE AND COORG,
*Bangalore, 3rd August* 1877.

G. J. VAN SOMEREN, CAPTAIN,
*Conservator of Forests, Mysore and Coorg.*

MYSORE FOREST

*Stock Account of Quantities and Value of Timber and other Forest Produce at the commencement*

| Description. | In Depôt on 1st April 1876. | | Add received during 1876—77. | | | | Deduct issued | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Quantity. | Probable Value. | Quantity. | Probable Value | | | Quantity. | Probable Value. | | |
| | | *Timber* Rs. | | | | | | | | |
| Nagar. Teak ... | 407 | 5,291 | 383 | 4,979 | 0 | 0 | 533 | 6,929 | 0 | 0 |
| Nagar. Junglewood ... | 454 | 4,540 | 1,186 | 11,860 | 0 | 0 | 1,222 | 12,220 | 0 | 0 |
| Nagar. Teak & Junglewood Poles.... | 518 | 518 | 731 | 731 | 0 | 0 | 984 | 984 | 0 | 0 |
| Nagar. Bamboos .. | 446 | 8 | 36,667 | 734 | 0 | 0 | 35,184 | 704 | 0 | 0 |
| Nagar. Fibre cart-loads ... | ... | ... | 402 | 147 | 8 | 0 | 402 | 147 | 8 | 0 |
| Total..... | 1,825 | 10,357 | (a)39,369 | 18,451 | 8 | 0 | 38,325 | 20,984 | 8 | 0 |
| | *Depots and Forests.* | | | | | | | | | |
| Mysore. Teak ... | 1,091 | 14,183 | 81 | 1,053 | 0 | 0 | 134 | 1,742 | 0 | 0 |
| Mysore. Junglewood ... | 326 | 3,260 | 64 | 640 | 0 | 0 | 106 | 1,060 | 0 | 0 |
| Mysore. Blackwood ... | 8 | 80 | 2 | 20 | 0 | 0 | 1 | 10 | 0 | 0 |
| Mysore. Teak Poles ... | 225 | 225 | ... | ... | ... | ... | 205 | 205 | 0 | 0 |
| Mysore. Bamboos ... | 4,898 | 98 | ... | ... | ... | ... | 2,590 | 52 | 0 | 0 |
| Total..... | 6,548 | 17,846 | 147 | 1,713 | 0 | 0 | 3,036 | 3,069 | 0 | 0 |
| Nundydroog ... Junglewood... | 36 | 360 | ... | ... | .. | ... | 36 | 360 | 0 | 0 |
| Total Timber..... | 8,409 | 28,563 | 39,516 | 20,164 | 8 | 0 | 41,397 | 24,413 | 8 | 0 |
| | | *Sandalwood.* | | | | | | | | |
| Nagar Good wood .. | 22½ | 7,200 | 195 | 62,400 | 0 | 0 | 181½ | 58,080 | 0 | 0 |
| Nagar Inferior wood ... | ... | .. | 65¾ | 2,104 | 0 | 0 | 65 | 2,080 | 0 | 0 |
| Mysore Good wood ... | 715½ | 2,28,960 | 352¾ | 1,12,880 | 0 | 0 | 412¼ | 1,31,920 | 0 | 0 |
| Mysore Inferior wood ... | 9¼ | 296 | 18¾ | 600 | 0 | 0 | 15 | 480 | 0 | 0 |
| Hassan Good wood .. | 82¼ | 26,320 | 106 | 33,920 | 0 | 0 | 132¼ | 42,320 | 0 | 0 |
| Hassan Inferior wood ... | 3 | 96 | 44¾ | 1,432 | 0 | 0 | 30¾ | 984 | 0 | 0 |
| Nundydroog Good wood ... | 3⅝ | 1,200 | 97 | 31,040 | 0 | 0 | 95¾ | 30,640 | 0 | 0 |
| Nundydroog Inferior wood ... | 8¼ | 264 | 16¾ | 556 | 0 | 0 | 24 | 768 | 0 | 0 |
| Total Sandalwood..... | 844½ | 2,64,336 | 896¾ | 2,44,912 | 0 | 0 | 956½ | 2,67,272 | 0 | 0 |
| Grand Total..... | 9,253½ | 2,92,899 | 40,412¾ | 2,65,076 | 8 | 0 | 42,[illegible]53½ | 2,91,685 | 8 | 0 |

CONSERVATOR OF FORESTS' OFFICE,
MYSORE AND COORG,
*Bangalore, 3rd August* 1877.

DEPARTMENT.

*and close of the year* 1876—77, *at Depôts other than District Forests.*

| or sold during 1876—77. | | | | | | | | | Remaining in Stock on 31st March 1877. | | | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Amount actually realized. | | | Difference. Profit. | | | Difference. Loss. | | | Quantity. | Probable Value. | | | |
| 11,346 | 10 | 7 | 4,417 | 10 | 7 | ... | ... | ... | 257 | 3,341 | 0 | 0 | |
| 13,995 | 15 | 9 | 1,775 | 15 | 9 | ... | ... | ... | 418 | 4,180 | 0 | 0 | |
| 460 | 2 | 9 | ... | ... | ... | 523 | 13 | 3 | 265 | 265 | 0 | 0 | |
| 2,653 | 11 | 5 | 1,949 | 11 | 5 | ... | ... | ... | 1,929 | 38 | 0 | 0 | |
| 147 | 8 | 0 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| 28,604 | 0 | 6 | 8,143 | 5 | 9 | 523 | 13 | 3 | 2,869 | 7,824 | 0 | 0 | (a) Includes the stock omitted to be shown in the balance of 1875-76, *viz.* 4,544. |
| 3,739 | 3 | 8 | 1,997 | 3 | 8 | ... | ... | ... | 1,038 | 13,494 | 0 | 0 | |
| 907 | 5 | 0 | ... | ... | ... | 152 | 11 | 0 | 284 | 2,840 | 0 | 0 | |
| 16 | 8 | 6 | 6 | 8 | 6 | ... | ... | ... | 9 | 90 | 0 | 0 | |
| 203 | 8 | 0 | ... | ... | ... | 1 | 8 | 0 | 20 | 20 | 0 | 0 | |
| 118 | 14 | 0 | 66 | 14 | 0 | ... | ... | ... | 2,308 | 46 | 0 | 0 | |
| (b)4,985 | 7 | 2 | 2,070 | 10 | 2 | 154 | 3 | 0 | 3,659 | 16,490 | 0 | 0 | (b) Includes Rs. 118-14-0, value of 2,590 bamboos sold in State Forests and excludes Rs. 1,038-2-6 being the value of 1,032 teak sleepers sold during the year. |
| ... | ... | ... | ... | ... | ... | (c)360 | 0 | 0 | ... | ... | ... | ... | (c) Written off *Vide* Secy's docket No. 1100—102 of the 11th July 1877. |
| 33,589 | 7 | 8 | 10,213 | 15 | 11 | 1,038 | 0 | 3 | 6,528 | 24,314 | 0 | 0 | |
| 67,274 | 10 | 9 | 9,194 | 10 | 9 | ... | ... | ... | 36 | 11,520 | 0 | 0 | |
| 1,503 | 7 | 2 | ... | ... | ... | 576 | 8 | 10 | ¾ | 24 | 0 | 0 | |
| 1,56,687 | 12 | 5 | 24,767 | 12 | 5 | ... | ... | ... | 656 | 2,09,920 | 0 | 0 | |
| 359 | 0 | ... | ... | ... | ... | 121 | 0 | 0 | 13 | 416 | 0 | 0 | |
| 60,887 | 12 | 4 | 18,567 | 12 | 4 | ... | ... | .. | 56 | 17,920 | 0 | 0 | |
| 694 | 1 | 0 | ... | ... | ... | 289 | 15 | 0 | 17 | 544 | 0 | 0 | |
| 40,764 | 2 | 0 | 10,124 | 2 | 0 | ... | ... | ... | 5 | 1,600 | 0 | 0 | |
| 99 | 10 | 0 | .. | ... | ... | 668 | 6 | 0 | 1 | 32 | 0 | 0 | |
| 3,28,270 | 7 | 8 | 62,654 | 5 | 6 | 1,655 | 13 | 10 | 784¼ | 2,41,976 | 0 | 0 | |
| 3,61,859 | 15 | 4 | 72,868 | 5 | 5 | 2,693 | 14 | 1 | 7,312¼ | 2,66,290 | 0 | 0 | |

G. J. VAN SOMEREN, CAPTAIN,
*Conservator of Forests, Mysore and Coorg.*

# A.

## MYSORE FOREST DEPARTMENT.

*Statement shewing the Timber and Bamboos felled in the Mysore Forests for* 1876—77.

| | Description of wood. | In State or Reserved Forests. | | In District Forests. | | Total. | | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | | Pieces. | Cubic feet. | Pieces. | Cubic feet. | Pieces. | Cubic feet. | |
| Nagar Division. | Teak ... ... ... | 235 | ... | 7,948 | ... | 8,183 | ... | The number of trees and poles felled was:— |
| | Junglewood ... ... .. | 126 | ... | 1,291 | ... | 1,417 | ... | |
| | Teak Poles ... ... ... | ... | ... | 905 | ... | 905 | ... | |
| | Junglewood Poles ... ... ... | ... | ... | 2,286 | ... | 2,286 | ... | |
| | Bamboos (No.) ... ... ... | ... | ... | 78,425 | ... | 78,425 | ... | |
| | Fiber (Cart-loads) ... ... ... | 50 | ... | 2 | ... | 52 | ... | |
| | Total..... | 411 | ... | 90,857 | ... | 91,268 | ... | |
| Mysore Division. | Teak ... ... ... | 81 | 1,525 | 394 | 2,678 | 475 | 4,203 | |
| | Junglewood ... ... ... | 66 | 1,170 | 2,906 | 22,095 | 2,972 | 23,265 | |
| | Teak Poles ... ... ... | ... | ... | 8,509 | 8,949 | 8,509 | 8,949 | |
| | Junglewood Poles ... ... ... | ... | ... | 8,858 | 12,933 | 8,858 | 12,933 | |
| | Bamboos (No.) ... ... ... | .. | ... | 94,772 | ... | 94,772 | ... | |
| | Green Bamboos (Head loads). ... ... ... | ... | ... | 1,127 | ... | 1,127 | ... | |
| | Total..... | 147 | 2,695 | 1,16,566 | 43,655 | 1,16,713 | 49,350 | |
| Nundydroog Division. | Bamboos (No.) ... ... ... | 23,780 | .. | ... | ... | 23,780 | ... | 12,305 bamboos sold for Rs. 216—2—1 and 3,700 utilized for a new forest hut and depôt. |
| | Firewood (Cart-loads) .. ... ... | 1,651 | ... | ... | ... | 1,651 | ... | 668 cart-loads of firewood sold for Rs. 727—1—0. |
| | Total..... | 25,431 | ... | ... | ... | 25,431 | ... | |
| | Grand Total..... | 25,989 | 2,695 | 2,07,423 | 46,655 | 2,33,412 | 49,350 | |

| | Teak. | Junglewood. |
|---|---|---|
| Nagar ... | 8,269 | 3,419 |
| Mysore ... | 8,762 | 11,178 |
| Total..... | 17,031 | 14,597 |

CONSERVATOR OF FORESTS' OFFICE,
MYSORE AND COORG,
*Bangalore, 3rd August* 1877.

G. J. VAN SOMEREN, CAPTAIN,
*Conservator of Forests, Mysore and Coorg.*

# B.

## MYSORE FOREST DEPARTMENT.

*Statement shewing the Timber and Bamboos collected at Depôts in the Mysore Forest Department during* 1876—77.

| Division | Description of Wood. | At Ordinary Depôts. No. of logs. | At Ordinary Depôts. Cubic feet. | At Ordinary Depôts. Felling and carting charges. | At District-Forest Depôts. No. of logs. | At District-Forest Depôts. Cubic feet. | At District-Forest Depôts. Felling and carting charges. | Total. No. of logs. | Total. Cubic feet. | Total. Felling and carting charges. | Average Cost per cubic foot. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nagar Division. | Teak ... ... ... | 547 | 11,901 | 5,505 6 11 | 1,517 | 4,212 | 7,605 11 4 | 2,064 | 16,113 | 13,111 2 3 | ... 4 8 | |
| | Junglewood ... ... | 541 | 12,903 | | 2,184 | 15,783 | | 2,725 | 28,686 | | | |
| | Teak poles No. ... ... | 307 | ... | 51 14 10 | 1,891 | ... | 295 13 9 | 2,198 | ... | 347 12 7 | .. 2 6 | Per pole. |
| | Junglewood poles (No.) ... ... | 132 | ... | 26 1 0 | 1,050 | ... | 358 2 11 | 1,182 | ... | 384 3 11 | ... 5 2 | Do. |
| | Bamboos (No.) ... ... | 32,896 | ... | 1,442 10 8 | 46,127 | ... | 1,496 0 10 | 79,023 | .. | 2,938 11 6 | 3 11 6 | Per 100 bamboos. |
| | Fibre (head loads) ... ... | 402 | ... | 97 4 0 | ... | ... | ... ... ... | 402 | .. | 97 4 0 | ... 3 10 | Per head load. |
| | Total.. ... | 34,825 | 24,804 | 7,123 5 5 | 52,769 | 19,995 | 9,755 12 10 | 87,594 | 44,799 | 16,879 2 3 | ... ... .. | |
| Mysore Division. | Teak ... ... ... | 272 | 3,468 | 1,691 5 3 | 79 | 400 | 7,249 5 6 | 351 | 3,868 | 9,070 10 9 | ... 2 10 | |
| | Junglewood ... ... | 16 | 354 | | 2,563 | 21,865 | | 2,579 | 22,219 | | | |
| | Teak poles, &c., ... ... | 400 | 400 | 130 0 0 | 8,305 | 10,769 | | 8,705 | 11,169 | | | |
| | Junglewood poles, &c. ... ... | ... | ... | ... ... . | 9,410 | 14,014 | | 9,410 | 14,014 | | | |
| | Bamboos (No.) ... ... | 440 | ... | 13 0 0 | 90,690 | ... | 1,861 10 0 | 91,130 | .. | 1,874 10 0 | 2 ... 11 | Per 100 bamboos. |
| | Green bamboos (head loads) ... | ... | ... | ... ... .. | 963 | ... | 58 11 2 | 963 | ... | 58 11 2 | ... .. ... | |
| | Total..... | 1,128 | 4,222 | 1,834 5 5 | 112,010 | 47,048 | 9,169 10 8 | 1,13,138 | 51,270 | 11,003 15 11 | ... ... .. | |
| Hassan Division. | Teak ... ... ... | ... | ... | ... ... .. | 2 | 2 | ... ... ... | 2 | 2 | ... .. ... | ... .. ... | |
| | Total.. ... | ... | ... | ... ... ... | 2 | 2 | ... ... .. | 2 | 2 | ... ... ... | ... .. ... | |
| Nundydroog Division. | | | | | *Temporary Forest Depôt.* | | | | | | | |
| | Bamboos (No.) ... ... | ... | ... | ... ... | 13,770 | ... | 103 8 0 | 13,770 | ... | 103 8 0 | ... 12 0 | Per 100 bamboos. |
| | Firewood (cart-loads) ... ... | ... | ... | ... ... .. | 1,651 | ... | 645 1 0 | 1,651 | ... | 645 1 0 | ... 6 3 | Per cart-load. |
| | Total..... | ... | ... | ... ... ... | 15,421 | ... | 748 9 0 | 15,421 | ... | 748 9 0 | ... ... ... | |
| | Grand Total..... | 35,953 | 29,026 | 8,957 10 8 | 180,202 | 67,045 | 19,674 0 6 | 216,155 | 96,071 | 28,631 11 2 | ... ... .. | |

CONSERVATOR OF FORESTS' OFFICE,
MYSORE AND COORG,
*Bangalore, 3rd August* 1877.

G. J. VAN SOMEREN, CAPTAIN,
*Conservator of Forests, Mysore and Coorg.*

C.

MYSORE FOREST

*Statement shewing the Amount realized on account of*

| | Description of wood. | At Ordinary Depôts. No. of logs sold. | Cubic feet. | Amount realized. | | | At District-Forest Depôts. No. of logs sold. | Cubic feet. | Amount realized. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nagar Division. | Teak ... | 533 | 8,488 | 11,346 | 10 | 7 | 955 | 5,301 | 5,053 | 15 | 9 |
| | Junglewood ... | 1,222 | 21,967 | 13,995 | 15 | 9 | 1,532 | 17,065 | 8,445 | 13 | 9 |
| | Teak poles, (No.) ... | 622 | ... | 283 | 3 | 9 | 783 | ... | 1,039 | 14 | 9 |
| | Junglewood poles, (No.) ... | 362 | ... | 176 | 15 | 0 | 862 | ... | 626 | 2 | 8 |
| | Bamboos (No.) ... | 35,184 | ... | 2,653 | 11 | 5 | 44,415 | ... | 2,409 | 8 | 5 |
| | Fibre (head-loads) ... | 402 | ... | 147 | 8 | 0 | ... | ... | ... | ... | ... |
| | Total..... | 38,325 | 30,455 | 28,604 | 0 | 6 | 48,547 | 22,366 | 17,575 | 7 | 4 |
| Mysore Division. | Teak ... ... | 319 | 4,665 | 4,368 | 5 | 4 | 145 | 695 | 388 | 11 | 5 |
| | Junglewood ... ... | 93 | 1,822 | 948 | 11 | 4 | 2,437 | 21,304 | 5,976 | 12 | 0 |
| | Teak poles, &c. ... | 650 | 671 | 561 | 12 | 0 | 7,949 | 10,256 | 3,582 | 4 | 6 |
| | Junglewood poles, &c. ... | 16 | 23 | 7 | 3 | 0 | 8,157 | 12,169 | 3,015 | 12 | 6 |
| | Bamboos (No.) ... ... | 400 | .. | 18 | 12 | 0 | 86,912 | ... | 2,573 | 3 | 0 |
| | Green bamboos, (head-loads) ... | ... | ... | ... | ... | ... | 963 | ... | 120 | 6 | 0 |
| | Total..... | 1,478 | 7,181 | 5,904 | 11 | 8 | 106,563 | 44,424 | 15,657 | 1 | 5 |
| Hassan Division. | Teak ... ... | ... | ... | ... | ... | ... | 26 | 82 | 380 | 11 | 10 |
| | Junglewood .. .. | ... | ... | ... | ... | ... | 215 | 1 185 | | | |
| | Total..... | ... | ... | ... | ... | ... | 241 | 1,267 | 380 | 11 | 10 |
| Nundydroog Division. | Bamboos (No.) ... | ... | ... | ... | ... | ... | 2,295 | .. | *Temporary* 72 | 13 | 3 |
| | Firewood, (cart-loads) ... | ... | ... | ... | ... | .. | 668 | ... | 727 | 1 | 0 |
| | Total..... | ... | ... | ... | ... | ... | 2,963 | ... | 799 | 14 | 3 |
| | Grand Total..... | 39,803 | 37,636 | 34,508 | 12 | 2 | 158,314 | 68,057 | 34,413 | 2 | 10 |

COSERVATOR OF FORESTS' OFFICE,
MYSORE AND COORG,
*Bangalore, 3rd August* 1877.

DEPARTMENT.

*the different classes of Timber sold during* 1876—77.

| Total. | | |

# D.

## MYSORE FOREST DEPARTMENT.

*Statement showing the Quantity of Sandalwood, collected and sold during the year* 1876—77.

| Description of wood. | Collections. | | | Sales. | | | Remarks. |
|---|---|---|---|---|---|---|---|
| | Quantity in tons. | Total Cost. | Average of Cost per ton. | Quantity in tons. | Amount realized. | Average Amount per ton. | |
| ***Nagar Forest Division.*** | | | | | | | |
| Good wood. Billets, &c. ... ... ... | 156¾ | 10,337 11 10 | 39 10 4 | 147 | 52,125 2 4 | 354 9 5 | |
| Good wood. Roots ... ... ... | 38¼ | | | 31 | 15,149 8 5 | 488 11 1 | |
| Good wood. Inferior wood ... ... ... | 65¾ | | | 64½ | 1,503 7 2 | 23 4 11 | |
| Total..... | 260¼ | 10,337 11 10 | 39 10 4 | 242½ | 68,778 1 11 | 283 9 11 | None but old roots left in the ground and dried broken and fallen trees were collected. |
| ***Mysore Forest Division.*** | | | | | | | |
| Good wood. Billets, &c. ... ... ... | 285¾ | 12,430 1 10 | 33 7 4 | 354¼ | 1,37,787 12 5 | 388 15 3 | |
| Good wood. Roots ... .. ... | 67 | | | 40 | 18,900 0 0 | 472 8 0 | |
| Good wood. Inferior wood ... ... ... | 18¾ | | | 15 | 359 0 0 | 23 14 11 | |
| Total..... | 371½ | 12,430 1 10 | 33 7 4 | 409¼ | 1,57,046 12 5 | 383 11 10 | |
| ***Hassan Forest Division*** | | | | | | | |
| Good wood. Billets, &c. ... ... ... | 78 | 5,820 7 4 | 38 9 9 | 85¼ | 41,607 12 4 | 488 1 1 | |
| Good wood. Roots ... ... ... | 28 | | | 40 | 19,280 0 0 | 482 0 0 | |
| Good wood. Inferior wood ... ... ... | 44¾ | | | 28¾ | 694 1 0 | 24 2 3 | |
| Total..... | 150¾ | 5,820 7 4 | 38 9 9 | 154 | 61,581 13 4 | 399 14 1 | |
| ***Nundydroog Forest Division.*** | | | | | | | |
| Good wood. Billets, &c ... ... ... | 80 | 4,616 6 0 | 40 9 4 | 76 | 32,447 0 5 | 426 14 11 | |
| Good wood. Roots ... ... ... | 17 | | | 17 | 8,317 1 7 | 489 8 10 | |
| Good wood. Inferior wood ... ... ... | 16¾ | | | 24 | 99 10 0 | 4 2 5 | |
| Total..... | 113¾ | 4,616 6 0 | 40 9 4 | 117 | 40,865 12 0 | 349 4 2 | |
| Grand Total..... | 896¾ | 33,204 11 0 | 37 0 5 | *922¾ | 3,28,270 7 8 | 355 12 0 | |

* Excludes 33¾ tons of drange on the total quantity of 922¾ tons exposed for sale.

CONSERVATOR OF FORESTS' OFFICE,
MYSORE AND COORG,
*Bangalore, 3rd August* 1877.

G. J. VAN SOMEREN, CAPTAIN,
*Conservator of Forests, Mysore and Coorg.*

# E.

*Comparative Statement shewing the Quantity of Sandalwood received and sold from 1873—74 to 1876—77.*

| Description of wood. | Collections in tons. | | | | | Sales in tons. | | | | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1873—74. | 1874—75. | 1875—76. | 1876—77. | Estimates for 1877—78. | 1873—74. | 1874—75. | 1875—76. | 1876—77. | Estimates for 1877—78. | |
| Billets, &c. ... | 738¼ | 626 | 739½ | 600½ | 900 | 640¾ | 369 | 557½ | 662½ | 900 | |
| Roots ... ... | 209¾ | 173 | 180¼ | 150¼ | | 197¾ | 145 | 208½ | 12[illegible] | | |
| Inferior wood ... | 160 | 110¾ | 135 | 146 | | 138 | 136¾ | 157¼ | 132½ | | |
| Total..... | 1,108 | 909¾ | 1,055 | 896¾ | 900 | 976 | 650¾ | 923 | 922¾ | 900 | |

CONSERVATOR OF FORESTS' OFFICE,
MYSORE AND COORG,
*Bangalore, 3rd August* 1877.

G. J. VAN SOMEREN, CAPTAIN,
*Conservator of Forests, Mysore and Coorg.*

F.

*Statement shewing the Expenditure incurred on account of*

| Divisions. | No. | Names of Plantations. | Previous area planted. | Area planted in 1875-76. | Area planted in 1876-77. | Total area planted. | Previous cost of formation and maintenance. | | | Cost of formation and maintenance on area planted in 1875-76. | | | Cost of formation and maintenance on area planted in 1876-77. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nagar. | 1 | Lakvalli (Teak) ... | 15 | ... | 5 | 20 | 897 | 0 | 0 | 11 | 0 | 0 | 142 | 0 | 0 |
| | 2 | Sakrebail ... ... | 30 | ... | ... | 30 | 2,928 | 0 | 0 | 10 | 0 | 0 | 71 | 0 | 0 |
| | 3 | Hebbe ... ... | 9¼ | ... | ... | 9¼ | 920 | 0 | 0 | 8 | 0 | 0 | 10 | 0 | 0 |
| | 4 | Alkol (Sandal) ... | 71 | ... | ... | 71 | 821 | 0 | 0 | 36 | 0 | 0 | 53 | 0 | 0 |
| | 5 | Anapankatte ... ... | 237 | ... | ... | 237 | 861 | 0 | 0 | 158 | 0 | 0 | 136 | 0 | 0 |
| | 6 | Santeveri (exotic) .. | 4¼ | ... | ... | 4¼ | 1,049 | 0 | 0 | 4 | 0 | 0 | 28 | 0 | 0 |
| Mysore. | 7 | Kakankote (Teak) ... | 93 | .. | ... | 93 | 5,899 | 0 | 0 | 546 | 0 | 0 | 429 | 0 | 0 |
| | 8 | Mastigudi (Teak) ... | 11 | 50 | 50 | 111 | 964 | 0 | 0 | 1,159 | 0 | 0 | 1,834 | 0 | 0 |
| | 9 | Gurapur (Sandal) ... | 55 | ... | ... | 55 | 2,702 | 0 | 0 | 250 | 0 | 0 | ... | 0 | 0 |
| | 10 | Nayihalla (Sandal) ... | ... | 46 | 50 | 96 | ... | 0 | 0 | 470 | 0 | 0 | 840 | 0 | 0 |
| | 11 | Karepur ... ... | 5 | ... | ... | 5 | 202 | 0 | 0 | ... | 0 | 0 | ... | 0 | 0 |
| Nundydroog. | 12 | Kumbarhalli (Timber) ... | 241 | 93 | 16 | 350 | 6,715 | 0 | 0 | 2,370 | 0 | 0 | 2,030 | 0 | 0 |
| | 13 | Maddagiri ... ... | 63 | ... | .. | 63 | 1,660 | 0 | 0 | 209 | 0 | 0 | .. | 0 | 0 |
| | 14 | Chota and Bada hosahardi ... ... | 225 | 152 | 73 | 450 | 8,765 | 0 | 0 | 3,846 | 0 | 0 | 3,947 | 0 | 0 |
| | 15 | Jadigammalli ... .. | 105½ | 91½ | 79 | 276 | 3,336 | 0 | 0 | 2,065 | 0 | 0 | 2,283 | 0 | 0 |
| | 16 | Nellal ... ... | 160 | 84 | 99 | 343 | 4,006 | 0 | 0 | 2,588 | 0 | 0 | 4,373 | 0 | 0 |
| | 17 | Kudgodi ... ... | 113 | 147 | 78 | 338 | 3,766 | 0 | 0 | 3,126 | 0 | 0 | 3,947 | 0 | 0 |
| | 18 | Kumalgod ... ... | 107 | 60 | 3 | 170 | 5,815 | 0 | 0 | 1,434 | 0 | 0 | 576 | 0 | 0 |
| | 19 | Kurandhalli ... ... | 179 | 84 | 45 | 308 | 2,829 | 0 | 0 | 1,765 | 0 | 0 | 1,558 | 0 | 0 |
| | 20 | Karapanhalli... ... | 103 | 36 | 29 | 168 | 3,676 | 0 | 0 | 1,742 | 0 | 0 | 1,016 | 0 | 0 |
| | 21 | Marasandra ... ... | 207 | 115 | 62 | 384 | 4,247 | 0 | 0 | 2,635 | 0 | 0 | 2,238 | 0 | 0 |
| | 22 | Appasandra ... ... | 165 | 99 | 57 | 321 | 4,517 | 0 | 0 | 2,218 | 0 | 0 | 1,660 | 0 | 0 |
| | 23 | Hennur ... ... | ... | ... | ... | .. | 109 | 0 | 0 | 15 | 0 | 0 | ... | 0 | 0 |
| | 24 | Nundydroog (Avenues) ... | ... | ... | ... | ... | 324 | 0 | 0 | ... | 0 | 0 | ... | 0 | 0 |
| | | Supervising Establishment in Nundydroog Division ... ... | ... | ... | ... | ... | 840 | 0 | 0 | 143 | 0 | 0 | 146 | 0 | 0 |
| | | Collection of seed and sundry charges .. | ... | ... | ... | ... | 3,930 | 0 | 0 | 2,616 | 0 | 0 | * 1,062 | 0 | 0 |
| | | Total.. ... | 2,199 | 1,057½ | 646 | 3,902½ | 71,778 | 0 | 0 | 29,424 | 0 | 0 | 28,379 | 0 | 0 |

CONSERVATOR OF FORESTS' OFFICE
MYSORE AND COORG,
*Bangalore, 3rd August* 1877.

* Mysore. 36
Nundydroog. 1,026

*Plantations in Mysore up to the close of the official year* 1876—77.

| Total cost of formation and maintenance on the whole area planted. | Amount realized on crops in previous years. | Amount realized on crops in 1875—76. | Amount realized on crops in 1876—77. | Total amount realized on crops. | Total net cost of area planted, formation and maintenance. | Average cost per acre, for formation, &c. In previous year. | Average cost per acre, for formation, &c. In 1875—76. | Average cost per acre for formation in 1876-77. | Average cost per acre for formation and maintenance on whole area planted. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,050 0 0 | | | | | 1,050 0 0 | ... | ... | 28 6 [illegible] | 52 8 0 | |
| 3,009 0 0 | | | | | 3,009 0 0 | ... | ... | ... | 100 4 9 | |
| 938 0 0 | | | | | 938 0 0 | ... | ... | ... | 101 6 3 | |
| 910 0 0 | ... | ... | ... | ... | 910 0 0 | ... | ... | ... | 12 13 1 | |
| 1,155 0 0 | | | | | 1,155 0 0 | ... | ... | ... | 4 14 0 | |
| 1,081 0 0 | | | | | 1,081 0 0 | ... | ... | ... | 254 5 8 | |
| 6,874 0 0 | 90 7 4 | ... | ... | 90 7 4 | 6,874 0 0 | ... | ... | ... | 73 14 7 | |
| 3,957 0 0 | ... | ... | ... | ... | 3,957 0 0 | ... | 23 2 10 | 36 10 10 | 35 10 4 | |
| 2,952 0 0 | 35 8 | ... | ... | 35 8 | 2,952 0 0 | ... | ... | ... | 53 10 9 | |
| 1,310 0 0 | ... | ... | ... | ... | 1,310 0 0 | ... | 10 3 6 | 16 12 9 | 13 10 4 | |
| 202 0 0 | ... | ... | ... | ... | 202 0 0 | ... | ... | ... | 40 6 4 | |
| 11,115 0 0 | | | | | 11,115 0 0 | ... | 25 7 9 | 126 14 ... | 31 12 1 | |
| 1,869 0 0 | | | | | 1,869 0 0 | ... | ... | ... | 29 10 8 | |
| 16,558 0 0 | ... | ... | ... | ... | 16,558 0 0 | ... | 25 4 10 | 54 1 1 | 36 12 8 | |
| 7,684 0 0 | | | | | 7,684 0 0 | ... | 22 9 1 | 26 14 4 | 27 13 5 | |
| 10,967 0 0 | | | | | 10,967 0 0 | ... | 30 12 11 | 44 2 9 | 31 15 7 | |
| 10,839 0 0 | 174 15 10 | ... | ... | 174 15 10 | 10,839 0 0 | ... | 21 4 3 | 50 9 8 | 32 1 1 | |
| 7,825 0 0 | | | | | 7,825 0 0 | ... | 23 14 4 | 192 ... ... | 46 ... 5 | |
| 6,152 0 0 | | | | | 6,152 0 0 | ... | 21 ... 2 | 34 9 11 | 19 15 7 | |
| 6,434 0 0 | | | | | 6,434 0 0 | ... | 48 6 2 | 35 ... 6 | 38 4 9 | |
| 9,120 0 0 | | | | | 9,120 0 0 | ... | 22 14 7 | 36 1 6 | 23 12 0 | |
| 8,395 0 0 | | | | | 8,395 0 0 | ... | 22 6 5 | 29 1 11 | 26 2 5 | |
| 124 0 0 | ... | ... | ... | ... | 124 0 0 | | | | | |
| 324 0 0 | | | | | 324 0 | | | | | |
| 1,129 0 0 | | | | | 1,129 0 0 | ... | ... | ... | ... | |
| 7,698 0 0 | | | | | 7,608 0 0 | | | | | |
| 1,29,581 0 0 | 300 15 2 | ... | ... | 300 15 2 | 1,29,581 0 0 | ... | ... | ... | ... | |

G. J. VAN SOMEREN, CAPTAIN,
*Conservator of Forests, Mysore and Coorg.*

# G.

*Statement shewing the Buildings which have cost more than Rs. 200.*

| Division. | Name of the building. | Cost. | | | Whether rent is charged. | Remarks. |
|---|---|---|---|---|---|---|
| Nagar ... | 1. Mavinhalla ... ... | 315 | 14 | 6 | No rent charged ... | In Lakvalli Forest far from forests, (under construction.) |
| | 2. Srigiri ... ... | 359 | 10 | 0 | Do ... | In Shankar Forest. |
| Nundydroog ... | 3. Devaraydurga ... | 350 | 0 | 0 | Do ... | In Devaraydurga State-forest. |
| | 4. Bilikal ... ... | 375 | 0 | 0 | Do ... | In Bilikal State-forests, (under construction.) |
| | 5. Killekaval ... ... | 275 | 0 | 0 | Do ... | In Killekaval do (under construction.) |
| | 6, Malur ... ... | 250 | 0 | 0 | Do ... | For the Plantation Ranger (under construction.) |

CONSERVATOR OF FORESTS' OFFICE,
MYSORE AND COORG,
*Bangalore*, 14*th August* 1877.

G. J. VAN SOMEREN, CAPTAIN,
*Conservator of Forests, Mysore and Coorg.*

*Return of Groves for 1876—77 for the Province of Mysore.*

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| District. | Taluk. | Number of Trees in Groves on 31st March 1876. | Area in acres planted on 31st March 1876. | Number of Topes. | Number of Villages over which Topes are distributed. | Areas in acres on 31st March 1877. | At what distance apart. | Description of Trees planted out during 1876—77. | Transplants or seed sown on spot. | Area in acres. Pits. | Ridges. | Cost of pitting or ridging. | Cost of watering. | Total Cost. | Remarks. |
| Bangalore ... | Nine. | 107,457 | 1,806 | 1,989 | 1,969 | 1,806 | 6—48 | Mango, Bassia, Jack, Eugenia Jambolana, Pongonia. | Both. | 22½ | 46⅔ | ... | ... | ... | |
| Túmkúr ... | Eight. | 81,181 | 1,451 | 3,337 | 2,233 | 1,451 | 6—1 | | | 1,177·22 | 373·32 | ... | ... | ... | |
| Kolar ... | Ten. | 351,617 | 7,428 | 5,211 | 2,705 | 7,428 | ... | Do, Tamarind, Ficus Terminalia and others. | ... | | | | | | |
| Hassan ... | Nine. | 122,549 | 1,196 | 2,236 | 2,190 | * | * | | ... | ... | ... | ... | ... | | |
| Mysore .. | Eleven. | 93,628 | 2,299 | 1,921 | 1,604 | 2,299 | ... | Do | ... | 1,310 | 989 | ... | ... | ... | *Information not given by Deputy Commissioner. |
| Shimoga ... | Eight. | 10,851 | 185 | † | † | ... | 6—11 yards. | ... | Both. | † | † | ... | ... | ... | † Do do |
| Kadur ... | Five. | 30,453 | 555 | 642 | 640 | ... | ... | Jack, &c. | ... | 555 | ... | ... | ... | ... | |
| Chitaldroog ... | Eight. | 29,227 | 837 | 937 | 939 | 837 | ... | ... | ... | ... | ... | ... | 100 | 100 | |
| Total ..... | Sixty-eight | 825,963 | 15,757 | 16,293 | 12,340 | 14,376 | ... | ... | | 3,065 | 1,409 5/12 | ... | 100 | 100 | |

*Nursery Return for 1876—77 for the Province of Mysore.*

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|
| District. | Taluk. | Number of Nurseries and Total Area in Acres. | Size of smallest and of largest Nursery. | Names of Seeds sown in Nurseries. | Number of Seedlings placed out at 9 inches apart and ready for distribution. | Number used for Government Avenues and Groves | Number distributed free. | Total Cost. | Remarks. |
| Bangalore ... ... ... | Nine. | ... | ... | ... | ... | ... | ... | ... | |
| Túmkúr ... ... ... | Eight. | 1 | ... | Caroba. | 3 | ... | ... | ... | |
| Kolar ... ... ... | Ten. | ... | ... | ... | ... | ... | ... | ... | |
| Hassan ... ... ... | Nine. | ... | ... | ... | ... | ... | ... | ... | |
| Mysore ... ... ... | Eleven. | ... | .. | ... | ... | ... | ... | ... | |
| Shimoga ... ... ... | Eight. | ... | *G. Yds. | ... | ... | ... | ... | ... | |
| Kadur ... ... ... | Five. | 2—1—24 | 1 & 24. | Jamum Bassia. | 1,105 | 355 | 250 | ... | No improvement made for want of rain. |
| Chitaldroog ... ... ... | Eight. | ... | ... | ... | ... | ... | ... | ... | |
| Total ..... | Sixty-eight. | 3—1—24 | 1 and 24 | ... | 1,108 | 355 | 250 | ... | |

Compiled from Returns sent in by Deputy Commissioners.

CONSERVATOR OF FORESTS' OFFICE,
MYSORE AND COORG,
*Bangalore, 17th September 1877.*

G. J. VAN SOMEREN, CAPTAIN,
*Conservator of Forests, Mysore and Coorg.*

*Avenues Return for 1876—77 for the Province of Mysore.*

| 1 | 2 | 3 | | | 4 | | | 5 | | | 6 | | | 7 | | | 8 | | | 9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| District. | Total. | Number of Miles of Road in District. | | | Number of Miles planted up to 31st March 1877. | | | To be planted up. | | | Cost of pitting and planting. | | | Cost of watering. | | | Total Cost. | | | Remarks. |
| | | M. | F. | Y. | M. | F. | Y. | M. | F. | Y. | | | | | | | | | | |
| Bangalore ... | Nine ... | 497 | 0 | 96 | 496 | 6 | 60 | 0 | 2 | 36 | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| Túmkúr ... | Eight ... | 475 | 0 | 0 | 475 | 0 | 0 | 1,007 trees. | | | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| Kolar ... | Ten ... | 438 | 0 | 0 | 408 | 0 | 0 | 30 | 0 | 0 | ... | ... | ... | ... | ... | ... | ... | ... | ... | Planted on both sides from 18 to 30 feet apart; no new plants were planted owing to drought. |
| Hassan ... | Nine ... | 660 | 0 | 103 | 649 | 4 | 103 | 10 | 4 | 0 | ... | ... | ... | ... | ... | ... | ... | ... | ... | Planted on both sides from 24 to 60 feet apart. |
| Mysore ... | Eleven ... | 648 | 0 | 0 | 563 | 0 | 0 | 85 | 0 | 0 | ... | ... | ... | ... | ... | ... | ... | ... | ... | Do from 12 to 60 feet apart. |
| Shimoga ... | Eight ... | 392 | 6 | 0 | 361 | 2 | 0 | 31 | 4 | 0 | ... | ... | ... | ... | ... | ... | 801 | 8 | 8 | Do on both sides from 6 to 8 yards. |
| Kadur ... | Five ... | 306 | 0 | 0 | 285 | 0 | 0 | 21 | 0 | 0 | ... | ... | ... | 420 | 2 | ... | 420 | 2 | ... | Planted on both sides except in dense forests; vacancies by failure of rian occurred. |
| Chitaldroog ... | Eight ... | 401 | 4 | 0 | 389 | 0 | 0 | 12 | 4 | 0 | ... | ... | ... | 1,077 | 1 | 7 | 1,077 | 1 | 7 | Planted on both sides from 15 to 30 feet apart. |
| | Total..... | 3,818 | 2 | 199 | 3,627 | 4 | 163 | 190 | 6 | 36 | ... | ... | ... | 1,497 | 3 | 7 | 2,298 | 12 | 3 | |

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